T1440

<110> Steven M. Ruben, et al.

<120> 32 Human Secreted Proteins

<130> PZ006P1

<140> Unassigned
<141> 1998-11-10

<150> PCT/US98/10868
<151> May 28, 1998

<150> 60/044,039
<151> May 30, 1997

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<151> August 29, 1997

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acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
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<223> Xaa equals any of the twenty naturally ocurring L-amino acids

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Trp Ser Xaa Trp Ser
1 5

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<210> 8
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<400> 8
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<211> 73
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ccatctcaat tag 73

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<211> 256
<212> DNA
<213> Homo sapiens

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gcatcatatg tcaagtttta tcagaataat aaagacttca ttgattcact tggcctgtta 900
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<213> Homo sapiens

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<213> Homo sapiens

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gtgtaaacag tagacaccca gaaatcgtga cttctgtgtt ctctccattt gagtattttg 2040
taatttttt gaaatatttg tggacataaa taaaaccaag ctacactaca aaaaaaaaaa 2100
aaaaaaactg gagactag 2118

<210> 17
<211> 1076
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (979)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1007)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1040)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1050)
<223> n equals a,t,g, or c

<400> 17
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ccacatctac ttcacgctgg tgaccgaagg gwgcggcgag atcgacttcc gctgcccccc 120
ggaagatccc ggctggaacg cccagatcac cctaggcctg gtcaagttca agaaccagca 180
ggccatccag acagtgcggg cccggcagag cctcgggacc gggaccctcg tgtcctaaac 240
caccgggcgc accatctttc cttcatgcta cccaccacct cagtgctgag gtcaaggcag 300
cttcgttgtt ccctctggct tgtgggggca cggctgtsyt ccatgtggca aggtggaagg 360
catggacgtg tggaggaggc gctggagctg aaggaatgga cgagccctgg gaggagggca 420
gaaggctacg cagggctgag gatgaagatg cagcccctgg atggtcccag actctcagga 480
catgcccagc tcaggggctt cgagccacag gcctggcctc atatggcatg agggggagct 540
ggcataggag ccccctccct gctgtggtcc tgccctctgt cctgcagact gctcttagcc 600
ccctggcttt gtgccaggcc tggaggaggg cagtccccca tggggtgccg agccaacgcc 660
tcaggaatca ggaggccagc ctggtaccaa aaggagtacc cagggcctgg tacccaggcc 720
cactccagaa tggcctctgg actcaccttg agaaggggga gctgctgggc ctaaagccca 780
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ggtggtgggg gtgagggggg gtttggccat tagcatttca tgtctttccc caaatgaaga 960
tgccctgcaa agggcagtna accacaaaaa aaaaaaaaaa aaaaacntgg gggggggccc 1020
ccgttaacca ttttggcctn ataggggggn ggtttttaaa aattaattgg gcccgg 1076

<210> 18
<211> 1379
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (639)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (697)
<223> n equals a,t,g, or c

<220>
<221> SITE

<222> (1347)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1361)
<223> n equals a,t,g, or c

<400> 18
ggcacgagca ccctcccaca cctccctgaa cttccatctg atcgacttca acttgctgat 60
ggtgaccacc atcgttctgg gccgccgctt cattgggtcc atcgtgaagg aggcctctca 120
gaggggaag gtctccctct ttcgctccat cctgctgttc ctcactcgct tcaccgttct 180
cacggcaaca ggctggagtc tgtgccgatc cctcatccac ctcttcagga cctactcctt 240
cctgaacctc ctgttcctct gctatccgtt tgggatgtac attccgttcc tgcarctgaa 300
ttkcgamcty cgsaagacaa gcctcttcaa ccacatggcc tccatggggc cccgggaggc 360
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cagcctcatc cgcagtgagg tggagttcct caagatggac ttcaactggc gcatgaagga 540
agtgctcgts agctccatgc tgagcgccta ctatgtggcc tttgtgcctg tytggttcgt 600
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tcagcacctc cgtgatcctc atgcagcacc tgctgcntgc cagctactgt gacctgctgc 720
acaaggccgc cgcccatctg ggctgttggc agaaggtgga cccagcgctg tgctccaacg 780
tgctgcagca cccgtggact gaagaatgca tgtggccgca gggcgtgctg gtgaagcaca 840
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acttccgctt ccakttcttt ttcagcaaac ccctgcggat cctcaacatc ctcctgctgc 960
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gggaccgctt ggtattgggc aaggcctact catactctgc tagcccccag agagacctgg 1140
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tccaccagag ctttgtattt ttgttacgta ctgtttcttt gataattgat gtgataagga 1320
aaaaagtcct atttttatac tcccaanmaa aaaaaaaaaa naaaaagcgg ccgaaagct 1379

<210> 19
<211> 1337
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (20)
<223> n equals a,t,g, or c

<400> 19
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ggctctcagg cggaagaagg ccagtacagc ctgaacttcc acaactgcaa caattcagtg 120
ccaggaaagg agcatccatt cgacatcacg gtgatgatcc gggagaagaa ccccgatggc 180
ttcctgtcgg cagcggagat gccccttttc aagctctaca tggtcatgtc cgcctgcttc 240
ctggccgctg gcatcttctg ggtgtccatc ctctgcagga acacgtacag cgtcttcaag 300
atccactggc tcatggcggc cttggccttc accaagagca tctctctcct cttccacagc 360
atcaactact acttcatcaa cagccagggg ccacccccatc gaaggccttg ccgkcatgta 420
ctacatcgca cacctgctga agggcgccct cctcttcatc accatcgccc tgattggctc 480
aggctgggct tcatcaagta cgtcctgtcg gataaggaga agaaggtctt tgggatcgtg 540
atccccatgc aggtcctggc caacgtggcc tacatcatca tcgagtcccg cgaggaaggc 600
gccacgaact acgtgctgtg gaaggagatt ttgttcctgg tggacctcat ctgctgtggt 660
gccatcctgt tccccgtagt ctggtccatc cggcatctcc aggatgcgtc tggcacagac 720
gggaaggtgg cagtgaacct ggccaagctg aagctgttcc ggcattacta tgtcatggtc 780

atctgctacg tctacttcac ccgcatcatc gccatcctgc tgcaggtggc tgtgcccttt 840
cagtggcagt ggctgtacma gctcttggtg garggctcca ccctggcctt cttcgtgctc 900
acgggctaca agttccagcc cacagggaac aacccgtacc tgcagctgcc ccaggaggac 960
gaggaggatg ttcagatgga gcaagtaatg acggactctg ggttccggga aggcctctcc 1020
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aagggtcgtc ctcccccagc atttctcact cctgcccttc ttccacagcg tatgtgggga 1140
ggtggagggg tccatgtgga ccaggcgccc agctcccggg acsccggttc ccggacaagc 1200
ccatttggaa gaagagtccc ttcctccccc caaatattgg gcagccctgt ccttaccccg 1260
ggaccacccc tcccttccag ctatgtgtac aataatgacc aatctgtttg gctaaaaaaa 1320
aaaaaaaaaa aactcga 1337

<210> 20
<211> 1390
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1267)
<223> n equals a,t,g, or c

<400> 20
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ctttttatga tgtttggtgg ctatgagact atagawgcrt rsgrrgatga tytttatcga 120
gatgagtcat ctagtgaact gagtgttgat agtgaggtgg aatttcaact ctatagccaa 180
attcattatg cccaagatct tgatgatgtc atcagggagg aagagcatga agaaaagaac 240
tctgggaatt cggaatcttc gagtagtaaa ccaaatcaga agaagctaat cgtcctttca 300
gatagtgagg tcatccagct gtcagatggg tcagaggtca tcactttgtc tgatgaagac 360
agtatttata gatgtaaagg aaagaatgtt agagttcaag cacaagaaaa tgcccatggt 420
ctttcttctt ctcttcaatc taatgagctg gttgataaga aatgcaagag tgatattgag 480
aagcctaaat ctgaagagag atcaggtgta atccgagagg tcatgattat agaggtcagt 540
tcaagtgaag aggaagagag caccatttca gaaggtgata atgtggaaag ctggatgcta 600
ctgggatgtg aagtagatga taaagatgat gatatccttc tcaaccttgt gggatgtgaa 660
aactctgtta ctgaaggaga agatggtata aactggtcca tcagtgacaa agacattgag 720
gcccagatag ctaataaccg aacacctgga agatggaccc agcggtacta ttcagccaac 780
aaaaacatta tctgtagaaa ttgtgacaaa cgtggtcatt tatcaaaaaa ctgcccctta 840
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ccagcccccc tttgcgaata ctgtcctgtg cctaagatgt tggaccactc atgtcttttc 960
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tgcacagaaa tctggaggca gtatcaccta acgaccaaac ctggaccacc caaaaagccg 1080
aagacccctt caagaccatc agccttagca tattgctatc actgcgcgca aaaaggccat 1140
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tgctactatg rtgacaaata tgaaattcag gagagagaaa agagactaaa acaaaaaata 1260
aaagtantca agaaaaatgg ggttatccca gagccatcca agctacctta tataaaagca 1320
gcaaatgaga acccccacca tgatataagg aagggccgtg cctcatggaa aagcaacagg 1380
tggcctcaag 1390

<210> 21
<211> 1431
<212> DNA
<213> Homo sapiens

<400> 21
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ctcagtctcc ctggcgagcg acgggcagaa atctcgaacc agtggagcgc actcgtaacc 120
tggatcccag aaggtcgcga aggcagtacc gtttcctcag cggcggactg ctgcagtaag 180

aatgtctttt ccacctcatt tgaatcgccc tcccatggga atcccagcac tcccaccagg 240
gatcccaccc ccgcagtttc caggatttcc tccacctgta cctccaggga ccccaatgat 300
tcctgtacca atgagcatta tggctcctgc tccaactgtc ttagtaccca ctgtgtctat 360
ggttggaaag catttgggcg caagaaagga tcatccaggc ttaaaggcta aagaaaatga 420
tgaaaattgt ggtcctacta ccactgtttt tgttggcaac atttccgaga aagcttcaga 480
catgcttata agacaactct tagctaaatg tggtttggtt ttgagctgga agagagtaca 540
aggtgcttcc ggaaagcttc aagccttcgg attctgtgag tacaaggagc cagaatctac 600
cctccgtgca ctcagattat tacatgacct gcaaattgga gagaaaaagc tactcgttaa 660
agttgatgca aagacaaagg cacagctgga tgaatggaaa gcaaagaaga aagcttctaa 720
tgggaatgca aggccagaaa ctgtcactaa tgacgatgaa gaagccttgg atgaagaaac 780
aaagaggaga gatcagatga ttaaaggggc tattgaagtt ttaattcgtg aatactccag 840
tgagctaaat gccccctcac aggaatctga ttctcacccc aggaagaaga agaaggaaaa 900
gaaggaggac attttccgca gatttccagt ggccccactg atcccttatc cactcatcac 960
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agaaagacag gaaattgaga aagaacggag agaaagagag agggagcgtg aaagggaacg 1140
agaaaggcga gaacgggaac gagaaaggga aagagaacgt gaacgagaaa aggagaaaga 1200
acgggagcgg gaacgagaac gggataggga ccgtgaccgg acaaaagaga gagaccgaga 1260
tcgggatcga gagagagatc gtgaccggga tagagaaagg agctcagatc gtaataagga 1320
tcgcattcga tcaagagaaa aaagcagaga tcgtgaaagg gaacgagagc gggaaagaga 1380
gagagagaga gaacgagagc gagaacgaga acgggagcga gagagagaag c 1431

<210> 22
<211> 2539
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1283)
<223> n equals a,t,g, or c

<400> 22
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tgcctgcgta tctgtctctg agaatcctcg gggcggtcag gggatgtcag gaggggaagg 120
agccgccctc cctatcttgc tgctcctctt ggcactcagg ggcaccttcc atggagccag 180
accgggtgga ggggcttctg ggatttggtg tctgctgctg ccagagcagg aacccccagt 240
ctaggacttg ggcattttaa cagggagaaa gtagtggctt ccctttttctc tctctcctcc 300
tttttccctt taagcccaca gattcaggtc atgccaaaag ctctctggtt gtaacctgga 360
gacatgtgga ggggaatggc gatgggatta taggactctc cccatctcgg gccctgaccc 420
tgacccttgc caccaaccca aagacagctg gtgggtttcc ccttggagam aatcctgcgt 480
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catcaccccg cttcttgttg ggcctcaggc actggttacc agaaggggtt ctgggtctgc 600
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caccacgcca cccctgtgst kgctacagga gcacagtagt gaaggcctga gctccaggtt 780
tgaaagaccc aactggagcg tggggcgggc aggcaggggt tagtgaaagg acacttccag 840
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ccagagaagg tggcatgggc ctgaacccac ctggactgac ttctgcactg aagccacaga 960
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gctgactgga tccatgcttt actgtgttta atgggggtaa caggggtccc tacagccctc 2460
ccagytaaam atttggaaca aaacaccagc ccttttgtag tggatgcaga ataaaattgt 2520
taatccaatc aaaaaaaaa 2539

<210> 23
<211> 1041
<212> DNA
<213> Homo sapiens

<400> 23
tcgacccacg cgtccgccca cgcgtccgcc cacgcgtccg ggcgcaggac gtgcactatg 60
gctcggggct cgctgcgccg gttgctgcgg ctcctcgtgc tggggctctg gctggcgttg 120
ctgcgctccg tggccgggga gcaagcgcca ggcaccgccc cctgctcccg cggcagctcc 180
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cttgggggcg ctctgagcct gaccttcgtg ctggggctgc tttctggctt tttggtctgg 360
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gcccagctgt ggcgctgatc cagtgacaat gtgccccctg ccagccgggg ctcgcccact 480
catcattcat tcatccattc tagagccagt ctctgcctcc cagacgcggc gggagcaagc 540
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ctcacgctgg ctcacacaaa acagctgaca ctgactaagg aactgcagca tttgcacagg 720
ggaggggggt gccctccttc ctagaggccc tgggggccag gctgacttgg ggggcagact 780
tgacactagg ccccactcac tcagatgtcc tgaaattcca ccacgggggt caccctgggg 840
ggttagggac ctatttttaa cactaggggg ctggcccact aggagggctg gccctaagat 900
acagaccccc ccaactcccc aaagcgggga ggagatattt attttgggga gagtttggag 960
gggagggaga atttattaat aaaagaatct ttaactttaa aaaaaaaaaa aaaaaagggc 1020
ggccgctcta gaggatccct c 1041

<210> 24
<211> 1962
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (452)
<223> n equals a,t,g, or c

<220>

<221> SITE
<222> (480)
<223> n equals a,t,g, or c

<400> 24
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cattagattt agggttgcat attaaaaact atatccattt tgccttatta tttagtgtct 120
cactcaggat ataacacact ataatagaaa atgtagactt cagaatcagg tatatttgag 180
atggtttgta tactggttct gacacttgtt agctattcat ctttggtaaa ttccccatta 240
ccctttgtkc acctatwtgt ggggatcagt gcatagtgtg tgtwaagcat ttaatacctg 300
gcaagtgttc agcaaatttt ttgttctata tatttattat ttgattattg gccctgagga 360
gtaggtgttt gtttgtttgt ttgtttgttt agttttattt ctcatctcct caggaacaca 420
aatgaaactt ggatattgtt atggtgcttt tnataatata tttattattt tcagcaattn 480
attcttgtta aaacaatttc ttatgacaag ttactcatct tcaatggtga gaagaaatct 540
agctcagaat aatatatttt tagtgtttgt atctctggat actcattttg ctcattgcca 600
cgtaaagtaa aaaaatacat aaattagctt attccaatgt aatatcttca ggatagtcat 660
gggcaaggaa ttaatcacat taagagataa ctgcaactaa gcactatttg aggtgacttc 720
tgtggaaaaa aaattaatyc tttaccattg cagcgttctg ccctaggtcc aaatgttacc 780
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gcagatgata cccgctacac ccagggaaca ggtggtgatg aggttgatga ttcagtgagt 1020
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gaagcttctg gaggtagggc tgaaaatggt gaaagaagtg acttggaaga ggacaacgag 1200
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ctcctgcaaa aaaggcatct tgtccctaca tcttctcttc tgactttggc tacatctcat 1500
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gatgttgtaa ctgtccaccc aagtaagaag tgtatctgcc tttccatctt ttggttttca 1620
tttgggcatg tgctattacc agaaacaaca aacttatatt taaaataccc ttcatttgac 1680
acagttttta atgagtgatt taatttcctc tgtatttgta tgtttagaag actgcctaaa 1740
acatgagcac tgtacttcat aaaggaaacg cgtatgcaga ttcagtattg tgtatctttg 1800
gacaattaga tggacattta aaatggaact tcttttatct gacaggatca gctacaatgc 1860
cctgtgttaa attgtttaaa agtttccctt ttctttttg ccaataaagt tgtaaataaa 1920
gaccatcata cattaaaatc caaaaaaaaa aaaaaaaaaa aa 1962

<210> 25
<211> 1228
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (580)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (621)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1159)

<223> n equals a,t,g, or c

<400> 25
ggctgcccag gccccgcact ggaagagcct ccagcagcaa gatgtgaccg ytgtgccgat 60
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gtgtaaggca gctgcatctg caccgagctc cctcctggac cagccgtgcc tctgccccgc 180
accctctgtc cgcaccgctg ttgccctgac aacgccggat atcacattgg ttctgccccc 240
tgacatcatc caacaggaag cgtcaccctg agggaggaga cagaagcctg ggccaggtga 300
acagtggtat agcagccact ccagcctctg ctgcagcagc caccctggat gtggctgttc 360
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ggcctccaga cctcgcccat gacgggagga gtctgtggct gaacatcagg ggcaaggagg 480
cggctgccct atccatgttc catgtctcca cgccactgcc agtgatgacc ggtggtttcc 540
tgagctgcat cttgggcttg gtgctgcccc tggcctatgn ttccagcctg acctggtgct 600
ggtggcgctg gggcctgcca ntgcctgcag ggcccccacg ctgcactcct ggctgcaatg 660
cttcgggggc tggcaggggg ccgagtcctg gccctcctgg aggagaactc cacaccccag 720
ctagcaggga tcctggcccg ggtgctgaat ggagaggcac ctcctagcct aggcccttcc 780
tctgtggcct ccccagagga cgtccaggcc ctgatgtacc tgagagggca gctggagcct 840
cagtggaaga tgttgcagtg ccatcctcac ctggtggctt gaaatcggcc aaggtgggag 900
catttacacc gcagaaatga caccgcacgc cagcgccccg cggccgcgat ccggacccca 960
agcccacggc tccctcgact ctggggcacg gaaccccgcc cactcccaat ccccgcgccc 1020
cgccctctcc cacccgtgct tcccccgctc caccctcac ctcacctcgc cccsgcccca 1080
cccatcgcgc cccggcccgt cccatcgagg cccatgcaac ccacgctcgg tyccgttccg 1140
gcccctgcgc tckcgctkns ttcgctcccc gcccttgcgc cgttagtaaa catcgctcaa 1200
acgaaaaaaa aaaaaaaaaa aaactcga 1228

<210> 26
<211> 1340
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (847)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1303)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1307)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1314)
<223> n equals a,t,g, or c

<400> 26
aattcggcag agagatggcc gcccccgtgg atctagagct gaagaaggcc ttcacagagc 60
ttcaagccaa agttattgac actcaacaga aggtgaagct cgcagacata cagattgaac 120
agctaaacag aacgaaaaag catgcacatc ttacagatac agagatcatg actttggtag 180
atgagactaa catgtatgaa ggtgtaggaa gaatgtttat tcttcagtcc aaggaagcaa 240
ttcacagtca gctgttagag aagcagaaaa tagcagaaga aaaaattaaa gaactagaac 300
agaaaaagtc ctacctggag cgacgttaaa ggaagctgag gacaacatcc gggagatgct 360

gatggcacga agggcccagt agggagcctc tctgggaagc tcttcctcct gcccctccca 420
ttcctggtgg gggcagagga gtgtctgcag ggaaacagct tctcctctgc cccgatggat 480
gctttatttg gatggcctgg caacatcaca ttttctgcat caccctgagc cccatttgct 540
tcccagccct ggagttttta cccggctttg ctgccacctc tgcccaggac ackcttccct 600
ctcgggatgt gtgatgaact cccaggagag ggaagatggg agccagggca agataggaag 660
ctctgcctga gctttccact aggcacgcca gccagaccaa taaaaagcgt ctgtcccact 720
ctgctaagcc tggttttctt gagcagaggg atggaacaga gggtgagaga ggcagtggcc 780
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agctggctca tcccagccag gtgggccaat tattcaattt tcaagaattt tgttgcaagc 1200
cagttgtcaa acacagccat tataattatg taaatttgca aattatgtta aaaacaagga 1260
caataaatat tcaaaatgca tccctaawwa aaaaaaaaaa aangggnggc cgcnctaggg 1320
gatccaagct tacgtacgcg 1340

<210> 27
<211> 806
<212> DNA
<213> Homo sapiens

<400> 27
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ctgtgtgcaa ccagagatgc cctctggctt tcagacctgc ctgcttttca ccctcagccc 120
tttctcactc agcaaaattg tgggggtccc tagtcagcag ctccctgggc agctctctga 180
gcaaggtggt ctctgtggtc atgaaggaga gccggctagg acagtgccgg aaactcagct 240
gcctctcccc ttcaactcag ctggcccccc gcacctgaag tgcacaggag ccgggaagag 300
agtctggagc ccaccccgga gggcagcaca ggaggtgtct ctgcagctgg tgtcctgcca 360
cccctgcagg cagcacacgt cccgggcatt ctccttagcc acagacagaa cagccagtgc 420
cagagtctgc tgtcgttccc ctttaagcac actcattcac cacacccgag gaggccagag 480
gtgcagggag catgggctgt cgcttccccc ttaagcacac tcattcacca cacccgagga 540
ggccagaagt gcagggagca tgggctgggt gcacctccgc aggagagaag gctgagccac 600
cgccgtcccg ggagcccggc tcccaggcct ctcgttttcc cctacctccc taagactttt 660
ctgtcactct ctggccattg aaaggcttct gttccttaaa gtgctgttac actctccttt 720
cccaggatgc agcaagccaa aacagtacca ctgcacgtca gcctgggtga cagagtgaga 780
ccctatctta aaaaaaaaaa aaaaaa 806

<210> 28
<211> 696
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (21)
<223> n equals a,t,g, or c

<400> 28
gagttcccna cgcggtggcg nccgttttag aaattagtgg atccccccgg gctggcaggg 60

aattcggcac gagcacagag gaaagcgggt gcccggcatg gccatcctga tgttgctggc 120
gggatcccca tgcaccttgt ccttctccac tgatactggc agctcggctc ctggacccaa 180
gatcccttga gtggaattct gcagtgcaag agcccttcgt gggagctgtc ccatgtttcc 240
atggtcccca gtctcccctc cacttggtgg ggtcaccaac tactcaccag aaggggggctt 300
accaagaaag ccctaaaaag ctgttgactt atctgcgctt gttccaactc ttatgccccc 360
aacctgccct accaccacca cgcgctcagc ctgatgtgtt tacatggtac tgtatgtatg 420
ggagagcaga ctgcaccctc cagcaacaac agatgaaagc cagtgagcct actaaccgtg 480
ccatcttgca aactacactt taaaaaaaac tcattgcttt gtattgtagt aaccaatatg 540
tgcagtatac gttgaatgta tatgaacata ctttcctatt tctgttcttt gaaaatgtca 600
gaaatatttt tttctttctc attttatgtt gaactaaaaa ggattaaaaa aaaaatctcc 660
agamaaaaaa aaaaaaaaaa aaattactgc ggtccg 696

<210> 29
<211> 1007
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (922)
<223> n equals a,t,g, or c

<400> 29
aattcggcac gaggaaaaaa taccatttgt gtatgatacc caatttggat ctcaatttgg 60
atagagattt ggtgcttcca gatgtragtt atcaggtgga atccagtgag gaggatcagt 120
ctcagactat ggatcctcaa ggacaaactc tgctgctttt tctctttgtg gatttccaca 180
gtgcatttcc agtccagcaa atggaaatct ggggagtcta tactttgctc acaactcatc 240
tcaatgccat ccttgtggag agccacagtg tagtgcaagg ttccatccaa ttcactgtgg 300
acaaggtctt ggagcaacat caccaggctg ccaaggctca gcagaaacta caggcctcac 360
tctcagtggc tgtgaactcc atcatgagta ttctgactgg aagcactagg agcagcttcc 420
gaaagatgtg tctccagacc cttcaagcag ctgacacaca agagttcagg accaaactgc 480
acaaagtatt tcgtgagatc acccaacacc aatttcttca ccactgctca tgtgaggtga 540
agcagctaac cctagaaaaa aaggactcag cccagggcac tgaggacgca cctgataaca 600
gcagcctgga gctcctagca gataccagcg ggcaagcaga aaacaagagg ctcaagaggg 660
gcagcccccg catagaggag atgcgagctc tgcgctctgc cagggccccg agcccgtcag 720
aggccgcccc gcgccgcccg gaagccaccg cggccccctt cactcctaga ggaagggagc 780
accgcgaggc tcacggcagg gccctggcgc cgggcagggc gagcctcgga agccgcctgg 840
aggacgtgct gtggctgcag gaggtctcca acctgtcaga gtggctgagt cccagccctg 900
ggccctgagc cgggtcccct tncgcaagcg cccaccgatc cggargctgc gggcagccgt 960
tatcccgtgg tttaataaag tgccgcgcgc tcaccaaaaa aaaaaaa 1007

<210> 30
<211> 2026
<212> DNA
<213> Homo sapiens

<400> 30
gaattcggca cgagcacgga tccgttgcgg ctgcagctct gcagtcgggc cgttccttcg 60
ccgccgccag gggtagcggt gtagctgcgc agcgtcgcgc gcgctaccgc acccaggttc 120
ggcccgtagg cgtctggcag cccggcgcca tcttcatcga gcgccatggc cgcagcctgc 180
gggccgggag cggccgggta ctgcttgctc ctcggcttgc atttgtttct gctgaccgcg 240
ggccctgccc tgggctggaa cgaccctgac agaatgttgc tgcgggatgt aaaagctctt 300
accctccact atgaccgcta taccacctcc cgcaggctgg atcccatccc acagttgaaa 360
tgtgttggag gcacagctgg ttgtgattct tataccccaa aagtcataca gtgtcagaac 420
aaaggctggg atgggtatga tgtacagtgg gaatgtaaga cggacttaga tattgcatac 480
aaatttggaa aaactgtggt gagctgtgaa ggctatgagt cctctgaaga ccagtatgta 540

ctaagaggtt cttgtggctt ggagtataat ttagattata cagaacttgg cctgcagaaa 600
ctgaaggagt ctggaaagca gcacggcttt gcctctttct ctgattatta ttataagtgg 660
tcctcggcgg attcctgtaa catgagtgga ttgattacca tcgtggtact ccttgggatc 720
gcctttgtag tctataagct gttcctgagt gacgggcagt attctcctcc accgtactct 780
gagtatcctc cattttccca ccgttaccag agattcacca actcagcagg acctcctccc 840
ccaggcttta agtctgagtt cacaggacca cagaatactg gccatggtgc aacttctggt 900
tttggcagtg cttttacagg acaacaagga tatgaaaatt caggaccagg gttctggaca 960
ggcttgggaa ctggtggaat actaggatat ttgtttggca gcaatagagc ggcaacaccc 1020
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ggtgttgtac taatagaaac taagtacaga aaatttcagt tttaggtggt tgtagctgat 1560
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tgtgctggca aaaatgcttg aaacctctat atttctttcg ttcataagag gtaaaggtca 1860
aatttttcaa caaaagtctt ttaataacaa aagcatgcag ttctctgtga aatctcaaat 1920
attgttgtaa tagtctgttt caatcttaaa aagaatcaat aaaaacaaac aaggggaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa actcga 2026

<210> 31
<211> 699
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (44)
<223> n equals a,t,g, or c

<400> 31
gngtttttttc cagccaggaa gtgaccgnta ctgcagcacg aganagattg gttgggttgg 60
ttgraaatga cyctgaacat ttatttccat tgcaatttct gtggctgagg agacttaaac 120
tttacaagta ttatcctttt aagatcattt taattttagt tgagtgcaga gggcttttat 180
aacaaacgtg cagaaatttt ggagggctgt gatttttcca gtattaaaca tgcatgcatt 240
aatcttgcag tttatttttct cattgtgtat gtatatatcg cttttctctg cagcacgatt 300
tctcttttga taawkccctt tagggcacaa ctagttatca gtaactgaat gtatcttaat 360
cattatggct gcttctgttt tttcattaac aaaggttatt catatgttag catatagttt 420
ctttgcaccc actatttatg tctgaatcat ttgtcacaag agagtgtgtg ctgatgagat 480
tgtaagtttg tgtgtttaaa ctttttttttg agcgagggaa gaaaaagctg tatgcatttc 540
attgctgtct acaggtttct ttcagattat gttcatgggt ttgtgtgtat acaatatgaa 600

gaatgatctg aagtaattgt gctgtattta tgtttattca ccagtctttg attaaataaa 660
aaggaaaacc agaaaaaaaa aaaaaaaaaa aaaaaaaaa 699

<210> 32
<211> 1264
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1057)
<223> n equals a,t,g, or c

<400> 32
ggcacgaggg cactgtttcc tcagtccatg gctgagtaca tcaccggtgt tttctctctt 60
attcctccca tcaagcctaa aaggaatctc tattggagat actgccatta gtgttccttt 120
tataggtgag gaactgaggc atakagggtt ccccagttga accaactgat aaatagtaga 180
acttggattt taattcagtc ttgatgccag ggataaggct cttactttct accttaggct 240
atttctagga aacgcaggag agtgttgaag gggcagagaa agggatccag ttcctttctg 300
tcccgcatcc tagtccctga gaagcaaaga araatgtgtg gcttcttttg ctttgctttt 360
gttgtcatcc cacacatctc caggggamct gggctcttga tcttggsctc ttccccttta 420
actgttaagt gggagcargt aaggggggtac agtagggctg gcctggagtt agaggcttgg 480
atgccttagc tcctctgtct gcactccaga actgcctgac ttcatttcgt atgttgtcct 540
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gcttctttct gttggtttcc agtgtttaac actgtataca acagtgacga caacgtgttt 660
gtgggggccc ccacgggcag cgggaagact atttgtgcag agtttgccat cctgcgaatg 720
ctgctgcaga gctcggaggg gcgctgtgys twcwtcaccm ccatggaggc cctggccaga 780
rcaggtatga cgtggcgctg tgtcatgtga atttcccaag aagcatttca tctgtgattc 840
cgtatgaagg ctttctaagc cctgaaattt gcagggtcat ttcctcagtt tgtgtattaa 900
agaaaagctg ccccagccaa gcgtggtggc tcacgcctgt aatcccagca ctttgggagg 960
ccgaggcggg cagatctccg gagatcagga gttcgagacc agcctggcca acatggtgra 1020
accctgtctc tactaaaawt acagaaatta gctgggngtg gtggtgtgcg cctgtaatcc 1080
cagctacttg gaaggctgag gcaggagaat cgcttgaacc cgggaggcgg aggttgcagt 1140
gagccaagtt cgcaccactg cactccagcc tgggcaacaa gagcgagact tcatctcaaa 1200
aaaaaaaaaa aaaaactcga ggggggggccc ggtacccaat tcgccctata gtgatcgtat 1260
taca 1264

<210> 33
<211> 997
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (855)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (881)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (916)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (957)
<223> n equals a,t,g, or c

<400> 33
attggaagtt gttttgcaac ctgggctttt atacagaaga atacgaatca caggtgtgtg 60
agcatctact taattaattt gcttacagcc gatttcctgc ttactctggc attaccagtg 120
aaaattgttg ttgacttggg tgtggcacct tggaagctga agatattcca ctgccaagta 180
acagcctgcc tcatctatat caatatgtat ttatcaatta tcttcttagc atttgtcagc 240
attgaccgct gtcttcagct gacacacagc tgcaagatct accgaataca agaacccgga 300
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aaggaatttg gaagaaattg gcatttgctg acaaatttca tatgtgtagc aatattttta 480
aatttctcag ccatcatttt aatatccaat tgccttgtaa ttcgacagct ctacagaaac 540
aaagataatg aaaattaccc aaatgtgaaa aaggctctca tcaacatact tttagtgacc 600
acgggctaca tcatatgctt tgttccttac cacattgtcc gaatcccgta taccctcagc 660
cagacagaag tcataactga ttgctcaacc aggatttcac tcttcaaagc caaagaggct 720
acactgctcc tggctgtgtc gaacctgtgc tttgatccta tcctgtacta tcacctctca 780
aaagcattcc gctcaaaggt cactgagact tttgcctcmc ctaaagagac caaggtyaga 840
aagaaaaatt aagangtgga aataatggct aaaagacagg ntttttgtgg taccaattct 900
gggctttatg ggaccntaaa gttattatag cttggaaggt aaaaaaaaaa aaagggnggg 960
cgctctagag gttccccgag gggccagctt agggtgc 997

<210> 34
<211> 1914
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1889)
<223> n equals a,t,g, or c

<400> 34
gtgtgagagg cctctctgga agttgtcccg ggtgttcgcc gctggagccc gggtcgagag 60
gacgaggtgc cgctgcctgg agaatcctcc gctgccgtcg gctcccggag cccagccctt 120
tcctaaccca acccaaccta gcccagtccc agccgccagc gcctgtccct gtcacggacc 180
ccagcgttac catgcatcct gccgtcttcc tatccttacc cgacctcaga tgctcccttc 240
tgctcctggt aacttgggtt tttactcctg taacaactga aataacaagt cttgatacag 300
agaatataga tgaaatttta aacaatgctg atgttgcttt agtaaatttt tatgctgact 360
ggtgtcgttt cagtcagatg ttgcatccaa tttttgagga agcttccgat gtcattaagg 420
aagaatttcc aaatgaaaat caagtagtgt ttgccagagt tgattgtgat cagcactctg 480
acatagccca gagatacagg ataagcaaat acccaaccct caaattgttt cgtaatggga 540
tgatgatgaa gagagaatac aggggtcagc gatcagtgaa agcattggca gattacatca 600
ggcaacaaaa aagtgacccc attcaagaaa ttcgggactt agcagaaatc accactcttg 660
atcgcagcaa aagaaatatc attggatatt ttgagcaaaa ggactcggac aactatagag 720
tttttgaacg agtagcgaat attttgcatg atgactgtgc ctttctttct gcatttgggg 780
atgtttcaaa accggaaaga tatagtggcg acaacataat ctacaaacca ccagggcatt 840
ctgctccgga tatggtgtac ttgggagcta tgacaaattt tgatgtgact tacaattgga 900
ttcaagataa atgtgttcct cttgtccgag aaataacatt tgaaaatgga gaggaattga 960
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aaatattcca gaatgaagta gctcggcaat taataagtga aaaaggtaca ataaactttt 1080
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atgtattaat tcctggaaaa ctcaagcaat tcgtatttga cttacattct ggaaaactgc 1260

acagagaatt ccatcatgga cctgacccaa ctgatacagc cccaggagag caagcccaag 1320
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atactctatt gagggatcga gatgagcttt aaaaacttga aaaacagttt gtaagccttt 1440
caacagcagc atcaacctac gtggtggaaa tagtaaacct atattttcat aattctatgt 1500
gtatttttat tttgaataaa cagaaagaaa ttttgggttt ttaatttttt tctccccgac 1560
tcaaaatgca ttgtcattta atatagtagc ctcttaaaaa aaaaaaaaac ctgctaggat 1620
ttaaaaataa aaatcagagg cctatctcca ctttaaatct gtcctgtaaa agttttataa 1680
atcaaatgaa aggtgacatt gccagaaact taccattaac ttgcactact agggtaggga 1740
ggacttaggg atgtttcctg tgtcgtatgt gcttttcttt ctttcatatg atcaattctg 1800
ttggtatttt cagtatctca tttctcaaag ctaaagagat atacattctg gatacttggg 1860
aggggaataa attaaagttt tcacactgna aaaaaaaaaa aaaaaaaaac tcga 1914

<210> 35
<211> 1020
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1014)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1015)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1018)
<223> n equals a,t,g, or c

<400> 35
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<210> 36
<211> 781
<212> DNA
<213> Homo sapiens

<400> 36
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<210> 37
<211> 966
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
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<222> (586)
<223> n equals a,t,g, or c

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<210> 38
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (395)
<223> n equals a,t,g, or c

<400> 38
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<210> 39
<211> 1114
<212> DNA
<213> Homo sapiens

<400> 39
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<210> 40
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> SITE

<222> (597)
<223> n equals a,t,g, or c

<400> 40
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ca 602

<210> 41
<211> 970
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (37)
<223> n equals a,t,g, or c

<400> 41
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caaaagagac 970

<210> 42
<211> 1002
<212> DNA
<213> Homo sapiens

<400> 42
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<210> 43
<211> 2581
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1591)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1703)
<223> n equals a,t,g, or c

<400> 43
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<210> 44
<211> 796
<212> DNA
<213> Homo sapiens

<400> 44

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<210> 45
<211> 2017
<212> DNA
<213> Homo sapiens

<400> 45

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<210> 46
<211> 981
<212> DNA
<213> Homo sapiens

<400> 46
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aggggctggc ctctccttcc tgggggctg gtggccctga catcagacac cgggtgtgac 480
aggcttgtcc gcagtcgaga tggaccagat cacgcctgcc ctctgggagg ccctagccat 540
tgacacattg aggaagctga ggattgggac aaggaggcca aggattagat gggggcagga 600
agctcatgta cctgcaggag ctgcccagga gggaccayta catcttttac tgcaaagacc 660
agcaccatgg gggcstgctc cacatgggaa agcttgtggg taggaattct gataccaacc 720
gggaggccct ggaagaattt aagaaattgg tgcagcgcaa gggactctcg gaggaggaca 780
ttttcacgcc cctgcagacg ggaagctgcr ttcccgaaca ctaggcagcc cccgggtctg 840
cacctccaga gcccacccta ccaccagaca cagagcccgg accacctgga cctaccctcc 900
agccatgacc cttccctgct cccacccacc tgactccaaa taaagtcctt ctcccccaaa 960
aaaaaaaaaa aaaaaactcg a 981

<210> 47
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (146)
<223> Xaa equals stop translation

<400> 47
Met His Tyr Gln Met Ser Val Thr Leu Lys Tyr Glu Ile Lys Lys Leu
1 5 10 15

Ile Tyr Val His Leu Val Ile Trp Leu Leu Leu Val Ala Lys Met Ser
20 25 30

Val Gly His Leu Arg Leu Leu Ser His Asp Gln Val Ala Met Pro Tyr
35 40 45

Gln Trp Glu Tyr Pro Tyr Leu Leu Ser Ile Leu Pro Ser Leu Leu Gly
50 55 60

Leu Leu Ser Phe Pro Arg Asn Asn Ile Ser Tyr Leu Val Leu Ser Met
65 70 75 80

Ile Ser Met Gly Leu Phe Ser Ile Ala Pro Leu Ile Tyr Gly Ser Met
85 90 95

Glu Met Phe Pro Ala Ala Gln Pro Ser Thr Ala Met Ala Arg Pro Thr
100 105 110

Val Ser Ser Leu Val Phe Leu Pro Phe Pro Ser Cys Thr Trp Cys Trp
115 120 125

Cys Trp Gln Cys Lys Cys Met Pro Gly Ser Cys Thr Thr Ala Arg Ser
130 135 140

Ser Xaa
145

<210> 48
<211> 312
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (312)
<223> Xaa equals stop translation

<400> 48
Met Asn Ser Val Val Ser Leu Leu Leu Ile Leu Glu Pro Asp Lys Gln
1 5 10 15

Glu Ala Leu Ile Glu Ser Leu Cys Glu Lys Leu Val Lys Phe Arg Glu
20 25 30

Gly Glu Arg Pro Ser Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His
35 40 45

Gly Met Asp Lys Asn Thr Pro Val Arg Tyr Thr Val Tyr Cys Ser Leu
50 55 60

Ile Lys Val Ala Ala Ser Cys Gly Ala Ile Gln Tyr Ile Pro Thr Glu
65 70 75 80

Leu Asp Gln Val Arg Lys Trp Ile Ser Asp Trp Asn Leu Thr Thr Glu
85 90 95

Lys Lys His Thr Leu Leu Arg Leu Leu Tyr Glu Ala Leu Val Asp Cys
100 105 110

Lys Lys Ser Asp Ala Ala Ser Lys Val Met Val Glu Leu Leu Gly Ser
115 120 125

Tyr Thr Glu Asp Asn Ala Ser Gln Ala Arg Val Asp Ala His Arg Cys
130 135 140

Ile Val Arg Ala Leu Lys Asp Pro Asn Ala Phe Leu Phe Asp His Leu
145 150 155 160

Leu Thr Leu Lys Pro Val Lys Phe Leu Glu Gly Glu Leu Ile His Asp
165 170 175

Leu Leu Thr Ile Phe Val Ser Ala Lys Leu Ala Ser Tyr Val Lys Phe
180 185 190

Tyr Gln Asn Asn Lys Asp Phe Ile Asp Ser Leu Gly Leu Leu His Glu
195 200 205

Gln Asn Met Ala Lys Met Arg Leu Leu Thr Phe Met Gly Met Ala Val
210 215 220

Glu Asn Lys Glu Ile Ser Phe Asp Thr Met Gln Gln Glu Leu Gln Ile
225 230 235 240

Gly Ala Asp Asp Val Glu Ala Phe Val Ile Asp Ala Val Arg Thr Lys
245 250 255

Met Val Tyr Cys Lys Ile Asp Gln Thr Gln Arg Lys Val Val Val Ser
260 265 270

His Ser Thr His Arg Thr Phe Gly Lys Gln Gln Trp Gln Gln Leu Tyr
275 280 285

Asp Thr Leu Asn Ala Trp Lys Gln Asn Leu Asn Lys Val Lys Asn Ser
290 295 300

Leu Leu Ser Leu Ser Asp Thr Xaa
305 310

<210> 49
<211> 64
<212> PRT
<213> Homo sapiens

<400> 49
Met Met Ser Phe Phe Cys Phe Val Met Gly Val Thr Val Ala Ala Thr
1 5 10 15

Phe Thr Ala Ile Val Pro Arg Trp Arg Leu Ser Gln Lys Glu Ile Gly
20 25 30

Ser Val Leu Ser Val Trp Leu Ser Arg Trp Arg Glu Asn Ser Leu Arg
35 40 45

Ser Leu Val Ser Gln Ser Val Ala Arg Ser Gly Lys Val Val Ile Arg
50 55 60

<210> 50
<211> 467
<212> PRT
<213> Homo sapiens

<400> 50
Met Leu Ser Arg Pro Gln Pro Pro Pro Asp Pro Leu Leu Leu Gln Arg
1 5 10 15

Leu Pro Arg Pro Ser Ser Leu Ser Asp Lys Thr Gln Leu His Ser Arg
20 25 30

Trp Leu Asp Ser Ser Arg Cys Leu Met Gln Gln Gly Ile Lys Ala Gly
35 40 45

Asp Ala Leu Trp Leu Arg Phe Lys Tyr Tyr Ser Phe Phe Asp Leu Asp
50 55 60

Pro Lys Thr Asp Pro Val Arg Leu Thr Gln Leu Tyr Glu Gln Ala Arg
65 70 75 80

Trp Asp Leu Leu Leu Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met
85 90 95

Val Phe Ala Ala Leu Gln Tyr His Ile Asn Lys Leu Ser Gln Ser Gly
100 105 110

Glu Val Gly Glu Pro Ala Gly Thr Asp Pro Gly Leu Asp Asp Leu Asp
115 120 125

Val Ala Leu Ser Asn Leu Glu Val Lys Leu Glu Gly Ser Ala Pro Thr
130 135 140

Asp Val Leu Asp Ser Leu Thr Thr Ile Pro Glu Leu Lys Asp His Leu
145 150 155 160

Arg Ile Phe Arg Pro Arg Lys Leu Thr Leu Lys Gly Tyr Arg Gln His
165 170 175

Trp Val Val Phe Lys Glu Thr Thr Leu Ser Tyr Tyr Lys Ser Gln Asp
180 185 190

Glu Ala Pro Gly Asp Pro Ile Gln Gln Leu Asn Leu Lys Gly Cys Glu
195 200 205

Val Val Pro Asp Val Asn Val Ser Gly Gln Lys Phe Cys Ile Lys Leu
210 215 220

Leu Val Pro Ser Pro Glu Gly Met Ser Glu Ile Tyr Leu Arg Cys Gln
225 230 235 240

Asp Glu Gln Gln Tyr Ala Arg Trp Met Ala Gly Cys Arg Leu Ala Ser
245 250 255

Lys Gly Arg Thr Met Ala Asp Ser Ser Tyr Thr Ser Glu Val Gln Ala
260 265 270

Ile Leu Ala Phe Leu Ser Leu Gln Arg Thr Gly Ser Gly Gly Pro Gly
275 280 285

Asn His Pro His Gly Pro Asp Ala Ser Ala Glu Gly Leu Asn Pro Tyr
290 295 300

Gly Leu Val Ala Pro Arg Phe Gln Arg Lys Phe Lys Ala Lys Gln Leu
305 310 315 320

Thr Pro Arg Ile Leu Glu Ala His Gln Asn Val Ala Gln Leu Ser Leu
325 330 335

Ala Glu Ala Gln Leu Arg Phe Ile Gln Ala Trp Gln Ser Leu Pro Asp
340 345 350

Phe Gly Ile Ser Tyr Val Met Val Arg Phe Lys Gly Ser Arg Lys Asp
355 360 365

Glu Ile Leu Gly Ile Ala Asn Asn Arg Leu Ile Arg Ile Asp Leu Ala
370 375 380

Val Gly Asp Val Val Lys Thr Trp Arg Phe Ser Asn Met Arg Gln Trp
385 390 395 400

Asn Val Asn Trp Asp Ile Arg Gln Val Ala Ile Glu Phe Asp Glu His
405 410 415

Ile Asn Val Ala Phe Ser Cys Val Ser Ala Ser Cys Arg Ile Val His
420 425 430

Glu Tyr Ile Gly Gly Tyr Ile Phe Leu Ser Thr Arg Glu Arg Ala Arg
435 440 445

Gly Glu Glu Leu Asp Glu Asp Leu Phe Leu Gln Leu Thr Gly Gly His
450 455 460

Glu Ala Phe
465

<210> 51
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (83)

<223> Xaa equals stop translation

<400> 51
Met Arg Pro Gly Arg Gly Ala Gly Thr Pro Gly Arg Pro Gly Arg Gly
1 5 10 15

Arg Gly Leu Ala Ala Thr Cys Ser Leu Ser Ser Pro Ser His Leu Leu
20 25 30

Pro Thr Leu Leu His Thr Phe Ser Phe Ser Leu Pro Pro Pro Ser Pro
35 40 45

Ala Ala Pro Arg Gln Pro Ser Pro Pro Ala Leu Leu Leu Pro Gly Pro
50 55 60

Gln Lys Pro Arg Pro Gly Asp Pro Thr Tyr Thr Gly Ala Leu Thr Asp
65 70 75 80

Trp Ser Xaa

<210> 52
<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (63)
<223> Xaa equals stop translation

<400> 52
Met Phe Leu Val Phe Phe Leu Ser Phe Phe Ser His Ser Ile Ser Ala
1 5 10 15

Leu Thr Leu Val Cys Ser Gln Gly Gly Lys Ala Asp Met Asn Leu Leu
20 25 30

Ser Trp Asp Phe Arg Pro His Trp Leu Glu Gly Ile Arg Phe Leu Leu
35 40 45

Gly Trp Gly Gln Ala Leu Met Ala Gly Leu Phe Pro Trp Leu Xaa
50 55 60

<210> 53
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

<222> (124)
<223> Xaa equals stop translation

<400> 53
Met Arg Gly Ser Trp His Arg Ser Pro Leu Pro Ala Val Val Leu Pro
1 5 10 15

Ser Val Leu Gln Thr Ala Leu Ser Pro Leu Ala Leu Cys Gln Ala Trp
20 25 30

Arg Arg Ala Val Pro His Gly Val Pro Ser Gln Arg Leu Arg Asn Gln
35 40 45

Glu Ala Ser Leu Val Pro Lys Gly Val Pro Arg Ala Trp Tyr Pro Gly
50 55 60

Pro Leu Gln Asn Gly Leu Trp Thr His Leu Glu Lys Gly Glu Leu Leu
65 70 75 80

Gly Leu Lys Pro Thr Pro Gly Gly Leu Leu Leu Arg Ser Phe Trp
85 90 95

Asp Pro His Pro Ser Arg Pro Phe Leu Cys Thr Leu Leu Pro Pro Pro
100 105 110

Leu Xaa Ile Phe Pro Pro Leu Arg Cys Ser Ala Xaa
115 120

<210> 54
<211> 180
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (99)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals stop translation

<400> 54
Met Thr Ser Ala Gly Pro Val Xaa Leu Phe Leu Leu Val Ser Ile Ser
1 5 10 15

Thr Ser Val Ile Leu Met Gln His Leu Leu Xaa Ala Ser Tyr Cys Asp
20 25 30

Leu Leu His Lys Ala Ala Ala His Leu Gly Cys Trp Gln Lys Val Asp
35 40 45

Pro Ala Leu Cys Ser Asn Val Leu Gln His Pro Trp Thr Glu Glu Cys
50 55 60

Met Trp Pro Gln Gly Val Leu Val Lys His Ser Lys Asn Val Tyr Lys
65 70 75 80

Ala Val Gly Xaa Xaa Xaa Val Ala Ile Pro Ser Asp Val Ser His Phe
85 90 95

Arg Phe Xaa Phe Phe Phe Ser Lys Pro Leu Arg Ile Leu Asn Ile Leu
100 105 110

Leu Leu Leu Glu Gly Ala Val Ile Val Tyr Gln Leu Tyr Ser Leu Met
115 120 125

Ser Ser Glu Lys Trp His Gln Thr Ile Ser Leu Ala Leu Ile Leu Phe
130 135 140

Ser Asn Tyr Tyr Ala Phe Phe Lys Leu Leu Arg Asp Arg Leu Val Leu
145 150 155 160

Gly Lys Ala Tyr Ser Tyr Ser Ala Ser Pro Gln Arg Asp Leu Asp His
165 170 175

Arg Phe Ser Xaa
180

<210> 55
<211> 287
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (221)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (287)
<223> Xaa equals stop translation

<400> 55

Met Pro Leu Phe Lys Leu Tyr Met Val Met Ser Ala Cys Phe Leu Ala
1 5 10 15

Ala Gly Ile Phe Trp Val Ser Ile Leu Cys Arg Asn Thr Tyr Ser Val
20 25 30

Phe Lys Ile His Trp Leu Met Ala Ala Leu Ala Phe Thr Lys Ser Ile
35 40 45

Ser Leu Leu Phe His Ser Ile Asn Tyr Tyr Phe Ile Asn Ser Gln Gly
50 55 60

Pro Pro His Arg Arg Pro Cys Arg His Val Leu His Arg Thr Pro Ala
65 70 75 80

Glu Gly Arg Pro Pro Leu His His His Arg Pro Asp Trp Leu Arg Leu
85 90 95

Gly Phe Ile Lys Tyr Val Leu Ser Asp Lys Glu Lys Lys Val Phe Gly
100 105 110

Ile Val Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile Ile
115 120 125

Glu Ser Arg Glu Glu Gly Ala Thr Asn Tyr Val Leu Trp Lys Glu Ile
130 135 140

Leu Phe Leu Val Asp Leu Ile Cys Cys Gly Ala Ile Leu Phe Pro Val
145 150 155 160

Val Trp Ser Ile Arg His Leu Gln Asp Ala Ser Gly Thr Asp Gly Lys
165 170 175

Val Ala Val Asn Leu Ala Lys Leu Lys Leu Phe Arg His Tyr Tyr Val
180 185 190

Met Val Ile Cys Tyr Val Tyr Phe Thr Arg Ile Ile Ala Ile Leu Leu
195 200 205

Gln Val Ala Val Pro Phe Gln Trp Gln Trp Leu Tyr Xaa Leu Leu Val
210 215 220

Glu Gly Ser Thr Leu Ala Phe Phe Val Leu Thr Gly Tyr Lys Phe Gln
225 230 235 240

Pro Thr Gly Asn Asn Pro Tyr Leu Gln Leu Pro Gln Glu Asp Glu Glu
245 250 255

Asp Val Gln Met Glu Gln Val Met Thr Asp Ser Gly Phe Arg Glu Gly
260 265 270

Leu Ser Lys Val Asn Lys Thr Ala Ser Gly Arg Glu Leu Leu Xaa
275 280 285

<210> 56
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals stop translation

<400> 56
Met Pro Met Val Phe Leu Leu Leu Phe Asn Leu Met Ser Trp Leu Ile
1 5 10 15

Arg Asn Ala Arg Val Ile Leu Arg Ser Leu Asn Leu Lys Arg Asp Gln
20 25 30

Val Xaa

<210> 57
<211> 24
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals stop translation

<400> 57
Met Lys Ile Val Val Leu Leu Pro Leu Phe Leu Leu Ala Thr Phe Pro
1 5 10 15

Arg Lys Leu Gln Thr Cys Leu Xaa
20

<210> 58
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
<223> Xaa equals stop translation

<400> 58
Met Ser Gly Gly Glu Gly Ala Ala Leu Pro Ile Leu Leu Leu Leu Leu
1 5 10 15

Ala Leu Arg Gly Thr Phe His Gly Ala Arg Pro Gly Gly Gly Ala Ser

20 25 30

Gly Ile Trp Cys Leu Leu Leu Pro Glu Gln Glu Pro Pro Val Xaa
35 40 45

<210> 59
<211> 114
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (114)
<223> Xaa equals stop translation

<400> 59
Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
1 5 10 15

Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
20 25 30

Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
35 40 45

Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys
50 55 60

Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe Arg Leu Leu Trp Pro
65 70 75 80

Ile Leu Gly Gly Ala Leu Ser Leu Thr Phe Val Leu Gly Leu Leu Ser
85 90 95

Gly Phe Leu Val Trp Arg Arg Cys Arg Arg Glu Arg Ser Ser Pro Pro
100 105 110

Pro Xaa

<210> 60
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals stop translation

<400> 60

Met Val Cys Ile Leu Val Leu Thr Leu Val Ser Tyr Ser Ser Leu Val
1 5 10 15

Asn Ser Pro Leu Pro Phe Val His Leu Xaa Val Gly Ile Ser Ala Xaa
20 25 30

<210> 61
<211> 81
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (81)
<223> Xaa equals stop translation

<400> 61
Met Thr Gly Gly Phe Leu Ser Cys Ile Leu Gly Leu Val Leu Pro Leu
1 5 10 15

Ala Tyr Xaa Ser Ser Leu Thr Trp Cys Trp Trp Arg Trp Gly Leu Pro
20 25 30

Xaa Pro Ala Gly Pro Pro Arg Cys Thr Pro Gly Cys Asn Ala Ser Gly
35 40 45

Ala Gly Arg Gly Pro Ser Pro Gly Pro Pro Gly Gly Glu Leu His Thr
50 55 60

Pro Ala Ser Arg Asp Pro Gly Pro Gly Ala Glu Trp Arg Gly Thr Ser
65 70 75 80

Xaa

<210> 62
<211> 104
<212> PRT
<213> Homo sapiens

<400> 62
Met Ala Ala Pro Val Asp Leu Glu Leu Lys Lys Ala Phe Thr Glu Leu
1 5 10 15

Gln Ala Lys Val Ile Asp Thr Gln Gln Lys Val Lys Leu Ala Asp Ile
20 25 30

Gln Ile Glu Gln Leu Asn Arg Thr Lys Lys His Ala His Leu Thr Asp
35 40 45

Thr Glu Ile Met Thr Leu Val Asp Glu Thr Asn Met Tyr Glu Gly Val
50 55 60

Gly Arg Met Phe Ile Leu Gln Ser Lys Glu Ala Ile His Ser Gln Leu
65 70 75 80

Leu Glu Lys Gln Lys Ile Ala Glu Glu Lys Ile Lys Glu Leu Glu Gln
85 90 95

Lys Lys Ser Tyr Leu Glu Arg Arg
100

<210> 63
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (146)
<223> Xaa equals stop translation

<400> 63
Met Pro Ser Gly Phe Gln Thr Cys Leu Leu Phe Thr Leu Ser Pro Phe
1 5 10 15

Ser Leu Ser Lys Ile Val Gly Val Pro Ser Gln Gln Leu Pro Gly Gln
20 25 30

Leu Ser Glu Gln Gly Gly Leu Cys Gly His Glu Gly Glu Pro Ala Arg
35 40 45

Thr Val Pro Glu Thr Gln Leu Pro Leu Pro Phe Asn Ser Ala Gly Pro
50 55 60

Pro His Leu Lys Cys Thr Gly Ala Gly Lys Arg Val Trp Ser Pro Pro
65 70 75 80

Arg Arg Ala Ala Gln Glu Val Ser Leu Gln Leu Val Ser Cys His Pro
85 90 95

Cys Arg Gln His Thr Ser Arg Ala Phe Ser Leu Ala Thr Asp Arg Thr
100 105 110

Ala Ser Ala Arg Val Cys Cys Arg Ser Pro Leu Ser Thr Leu Ile His
115 120 125

His Thr Arg Gly Gly Gln Arg Cys Arg Glu His Gly Leu Ser Leu Pro
130 135 140

Leu Xaa
145

<210> 64
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation

<400> 64
Met Ala Ile Leu Met Leu Leu Ala Gly Ser Pro Cys Thr Leu Ser Phe
1 5 10 15

Ser Thr Asp Thr Gly Ser Ser Ala Pro Gly Pro Lys Ile Pro Xaa
20 25 30

<210> 65
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (260)
<223> Xaa equals stop translation

<400> 65
Met Asp Pro Gln Gly Gln Thr Leu Leu Leu Phe Leu Phe Val Asp Phe
1 5 10 15

His Ser Ala Phe Pro Val Gln Gln Met Glu Ile Trp Gly Val Tyr Thr
20 25 30

Leu Leu Thr Thr His Leu Asn Ala Ile Leu Val Glu Ser His Ser Val
35 40 45

Val Gln Gly Ser Ile Gln Phe Thr Val Asp Lys Val Leu Glu Gln His
50 55 60

His Gln Ala Ala Lys Ala Gln Gln Lys Leu Gln Ala Ser Leu Ser Val
65 70 75 80

Ala Val Asn Ser Ile Met Ser Ile Leu Thr Gly Ser Thr Arg Ser Ser
85 90 95

Phe Arg Lys Met Cys Leu Gln Thr Leu Gln Ala Ala Asp Thr Gln Glu
100 105 110

Phe Arg Thr Lys Leu His Lys Val Phe Arg Glu Ile Thr Gln His Gln
115 120 125

Phe Leu His His Cys Ser Cys Glu Val Lys Gln Leu Thr Leu Glu Lys

130 135 140

Lys Asp Ser Ala Gln Gly Thr Glu Asp Ala Pro Asp Asn Ser Ser Leu
145 150 155 160

Glu Leu Leu Ala Asp Thr Ser Gly Gln Ala Glu Asn Lys Arg Leu Lys
165 170 175

Arg Gly Ser Pro Arg Ile Glu Glu Met Arg Ala Leu Arg Ser Ala Arg
180 185 190

Ala Pro Ser Pro Ser Glu Ala Ala Pro Arg Arg Pro Glu Ala Thr Ala
195 200 205

Ala Pro Leu Thr Pro Arg Gly Arg Glu His Arg Glu Ala His Gly Arg
210 215 220

Ala Leu Ala Pro Gly Arg Ala Ser Leu Gly Ser Arg Leu Glu Asp Val
225 230 235 240

Leu Trp Leu Gln Glu Val Ser Asn Leu Ser Glu Trp Leu Ser Pro Ser
245 250 255

Pro Gly Pro Xaa
260

<210> 66
<211> 339
<212> PRT
<213> Homo sapiens

<400> 66
Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu
1 5 10 15

Gly Leu His Leu Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn
20 25 30

Asp Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His
35 40 45

Tyr Asp Arg Tyr Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu
50 55 60

Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val
65 70 75 80

Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu
85 90 95

Cys Lys Thr Asp Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val
100 105 110

Ser Cys Glu Gly Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly
115 120 125

Ser Cys Gly Leu Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln

130 135 140

Lys Leu Lys Glu Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp
145 150 155 160

Tyr Tyr Tyr Lys Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu
165 170 175

Ile Thr Ile Val Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu
180 185 190

Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro
195 200 205

Pro Phe Ser His Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro
210 215 220

Pro Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His
225 230 235 240

Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr
245 250 255

Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile
260 265 270

Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp
275 280 285

Ser Trp Tyr Tyr Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn
290 295 300

Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys
305 310 315 320

Ser Asn Ser Asp Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr
325 330 335

Arg Arg Arg

<210> 67
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals stop translation

<400> 67
Met His Ala Leu Ile Leu Gln Phe Ile Phe Ser Leu Cys Met Tyr Ile
1 5 10 15

Ser Leu Phe Ser Ala Ala Arg Phe Leu Phe Xaa
20 25

<210> 68
<211> 76
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 68
Met Ser Gln Ser Val Ser Ser Ser Phe Leu Ile Leu Thr Leu Leu Leu
1 5 10 15

Ser Val Gly Phe Gln Cys Leu Thr Leu Tyr Thr Thr Val Thr Thr Thr
20 25 30

Cys Leu Trp Gly Pro Pro Arg Ala Ala Gly Arg Leu Phe Val Gln Ser
35 40 45

Leu Pro Ser Cys Glu Cys Cys Cys Arg Ala Arg Arg Gly Ala Val Xaa
50 55 60

Xaa Ser Pro Pro Trp Arg Pro Trp Pro Glu Gln Val
65 70 75

<210> 69
<211> 216
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (216)
<223> Xaa equals stop translation

<400> 69
Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
1 5 10 15

Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
20 25 30

Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
35 40 45

Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
50 55 60

Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His

65 70 75 80

Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala
85 90 95

Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn
100 105 110

Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile
115 120 125

Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile
130 135 140

Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys
145 150 155 160

Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu
165 170 175

Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser
180 185 190

Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu
195 200 205

Thr Lys Val Arg Lys Lys Asn Xaa
210 215

<210> 70
<211> 407
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (407)
<223> Xaa equals stop translation

<400> 70
Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
1 5 10 15

Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
20 25 30

Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
35 40 45

Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
50 55 60

His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
65 70 75 80

Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
85 90 95

Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
100 105 110

Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
115 120 125

Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
130 135 140

Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
145 150 155 160

Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
165 170 175

Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
180 185 190

Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
195 200 205

Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
210 215 220

Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
225 230 235 240

Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
245 250 255

Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
260 265 270

Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
275 280 285

Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
290 295 300

Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
305 310 315 320

Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
325 330 335

Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
340 345 350

Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
355 360 365

Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
370 375 380

Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
385 390 395 400

Arg Asp Arg Asp Glu Leu Xaa
405

<210> 71
<211> 45
<212> PRT
<213> Homo sapiens

<400> 71
Met Ser Met Cys Ile His Ala Lys Lys His Leu Ile Cys Ile Cys Phe
1 5 10 15

Arg Lys Gly Gly Asn Glu Ala Thr Cys Leu Lys Ile Leu Leu Tyr Lys
20 25 30

Ala Phe Gln Pro Phe Pro Leu Ser Phe Ala Leu Ile Phe
35 40 45

<210> 72
<211> 34
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals stop translation

<400> 72
Met Pro Leu Lys Ala Val Thr Trp Pro Thr Leu Asn Ser Lys Leu Val
1 5 10 15

Ala Ala Val Val Asn Leu Lys Ala Ser Gln Met Pro Ala Ser Ser Arg
20 25 30

Val Xaa

<210> 73
<211> 160
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 73
Met Ala Pro Leu Ile Pro Ala Val Ala Arg Gly Ser Ser Phe Leu Leu
1 5 10 15

Leu His Ala Leu Thr Leu Trp Gly Ala Pro Phe Pro Thr Thr Trp Val
20 25 30

Ser Cys Gln Pro Arg Ser Val Leu Arg Pro Ser Pro Val Arg Pro Gly
35 40 45

Val Pro Pro Leu Ala Ala Xaa Pro Leu Cys Ser Cys Val Ser Leu Phe
50 55 60

Phe Phe Arg Val Val Leu His Val Ser Ser Ile Cys Gly Val Ala Leu
65 70 75 80

Gly Pro Phe Arg Thr Gly Ala Pro Ala Gln Leu Leu Gly Pro Pro Pro
85 90 95

Val Ala Gln Gly Arg Leu Phe Val Pro Gln Pro Gln Ala Val Ser Gly
100 105 110

Glu Asn Arg Cys Val Val Pro Glu Leu Lys Phe Trp Glu Gly Gln Cys
115 120 125

Pro Phe Leu Trp Gly Pro Gly Leu Val Leu His Cys Phe Lys Arg Ser
130 135 140

Cys His Ser Asn Arg Gln Pro Cys Asn Arg Arg Ala Ala Cys Ser Pro
145 150 155 160

<210> 74
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals stop translation

<400> 74
Met Ala Gly Ile His Arg Ala Phe Leu Val Phe Cys Leu Trp Gly Leu
1 5 10 15

Xaa Leu Cys Val Val Gly Gly Pro Trp Xaa
20 25

<210> 75
<211> 91
<212> PRT
<213> Homo sapiens

<400> 75
Met Ala Ala Ala Glu Glu Glu Asp Gly Gly Pro Glu Ala Lys Ile Ala

1 5 10 15

Ser Gly Ala Gly Arg Ala Arg Pro Ser Asn Val Ile Tyr Val Trp Arg
20 25 30

Leu Leu Gly Lys Leu Trp Ser Val Cys Val Ala Thr Cys Thr Val Gly
35 40 45

His Val Phe Ile Ser Gly Trp Arg His Gly Gln Asn Gly Lys Ser Val
50 55 60

Gln Tyr Val Lys Leu Gly Ser Ala Glu Arg Arg Leu Ser Arg Phe Met
65 70 75 80

Gly Glu Gly Ala Arg Ser Pro Arg Ile Pro Asp
85 90

<210> 76
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals stop translation

<400> 76
Met Thr Ile Trp Gln Leu Phe Ala Val Leu Ile Val Leu Phe Ala Lys
1 5 10 15

Ser Arg Glu Ile Ser Thr Glu Gly Glu Pro Cys Val Leu Ser Lys Asn
20 25 30

Xaa

<210> 77
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals stop translation

<400> 77
Met Leu Asn Pro Phe Xaa Gln Leu Leu Leu Val Leu Leu Phe Pro Glu
1 5 10 15

Trp Pro Thr Pro Leu His Xaa
20

<210> 78
<211> 173
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 78
Met Lys Thr Leu Phe Leu Gly Val Thr Leu Gly Leu Ala Ala Ala Leu
1 5 10 15

Ser Xaa Thr Leu Xaa Glu Glu Asp Ile Thr Gly Thr Trp Tyr Val Lys
20 25 30

Ala Met Val Val Asp Lys Thr Phe Arg Arg Gln Glu Ala Gln Lys Val
35 40 45

Ser Pro Val Lys Val Thr Ala Leu Gly Gly Gly Lys Leu Glu Ala Thr
50 55 60

Phe Thr Phe Met Arg Glu Asp Arg Cys Ile Gln Lys Lys Ile Leu Xaa
65 70 75 80

Arg Lys Thr Glu Glu Pro Gly Lys Tyr Ser Ala Cys Glu Pro Leu Pro
85 90 95

His Ser His Pro His Xaa Pro Pro Pro Pro Thr Pro Val His Gln Pro
100 105 110

Pro Gln Val Glu Ser Ala Gln Ala Ala Leu Leu Pro Gly Pro Gln Leu
115 120 125

Cys Pro Pro Pro Arg Arg Gly Trp Pro Leu Leu Pro Gly Gly Leu Val
130 135 140

Ala Leu Thr Ser Asp Thr Gly Cys Asp Arg Leu Val Arg Ser Arg Asp

145 150 155 160

Gly Pro Asp His Ala Cys Pro Leu Gly Gly Pro Ser His
165 170

<210> 79
<211> 208
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (148)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (186)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (208)
<223> Xaa equals stop translation

<400> 79
Met Ala Asp Ser Ser Tyr Thr Ser Glu Val Gln Ala Ile Leu Ala Phe
1 5 10 15

Leu Ser Leu Gln Arg Thr Gly Ser Gly Gly Pro Gly Asn His Pro His
20 25 30

Gly Pro Asp Ala Ser Ala Glu Gly Leu Asn Pro Tyr Gly Leu Val Ala
35 40 45

Pro Arg Phe Gln Arg Lys Phe Lys Ala Lys Gln Leu Thr Pro Arg Ile
50 55 60

Leu Glu Ala His Gln Asn Val Ala Gln Leu Ser Leu Ala Glu Ala Gln
65 70 75 80

Leu Arg Phe Ile Gln Ala Trp Gln Ser Leu Pro Asp Phe Gly Ile Ser
85 90 95

Tyr Val Met Val Arg Phe Lys Gly Ser Arg Lys Asp Glu Ile Leu Gly
100 105 110

Ile Ala Asn Asn Arg Leu Ile Arg Ile Asp Leu Ala Val Gly Asp Val
115 120 125

Val Lys Thr Trp Arg Phe Ser Asn Met Arg Gln Trp Asn Val Asn Trp
130 135 140

Asp Ile Arg Xaa Val Ala Ile Glu Phe Asp Glu His Ile Asn Val Ala
145 150 155 160

Phe Ser Cys Val Ser Ala Ser Cys Arg Ile Val His Glu Tyr Ile Gly

165 170 175

Gly Tyr Ile Phe Leu Ser Thr Arg Glu Xaa Ala Arg Gly Glu Glu Leu
180 185 190

Asp Glu Asp Leu Phe Leu Gln Leu Thr Gly Gly His Glu Ala Phe Xaa
195 200 205

<210> 80
<211> 146
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (95)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (100)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (146)
<223> Xaa equals stop translation

<400> 80
Met Pro Ser Gly Phe Gln Thr Cys Leu Leu Phe Thr Leu Ser Pro Phe
1 5 10 15

Ser Leu Ser Lys Ile Val Gly Val Pro Ser Gln Gln Leu Pro Gly Gln
20 25 30

Leu Ser Glu Gln Gly Gly Leu Cys Gly His Glu Gly Glu Pro Ala Arg
35 40 45

Thr Val Pro Glu Thr Gln Leu Pro Leu Pro Phe Asn Ser Ala Gly Pro
50 55 60

Pro His Leu Lys Cys Thr Gly Ala Gly Lys Arg Val Trp Ser Pro Pro
65 70 75 80

Arg Arg Ala Ala Gln Glu Val Ser Leu Gln Leu Val Ser Cys Xaa Pro
85 90 95

Cys Arg Gln Xaa Thr Ser Arg Ala Phe Ser Leu Ala Thr Asp Arg Thr
100 105 110

Ala Ser Ala Arg Val Cys Cys Arg Phe Pro Phe Lys His Thr His Ser
115 120 125

Pro His Pro Arg Arg Pro Glu Val Gln Gly Ala Trp Ala Val Val Pro

130 135 140

Leu Xaa
145

<210> 81
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals stop translation

<400> 81
Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Thr Ala Cys Ser Ser
1 5 10 15

Ala Cys Ile Cys Phe Cys Xaa
20

<210> 82
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation

<400> 82
Met Lys Thr Leu Phe Leu Gly Val Thr Leu Gly Leu Ala Leu Pro Cys
1 5 10 15

Pro Ser Pro Trp Xaa Arg Arg Ile Ser Gln Gly Pro Gly Thr Xaa
20 25 30

<210> 83
<211> 374
<212> PRT
<213> Homo sapiens

<400> 83
Met Ser Val Pro Ala Phe Ile Asp Ile Ser Glu Glu Asp Gln Ala Ala
1 5 10 15

Glu Leu Arg Ala Tyr Leu Lys Ser Lys Gly Ala Glu Ile Ser Glu Glu
20 25 30

Asn Ser Glu Gly Gly Leu His Val Asp Leu Ala Gln Ile Ile Glu Ala
35 40 45

Cys Asp Val Cys Leu Lys Glu Asp Asp Lys Asp Val Glu Ser Val Met
50 55 60

Asn Ser Val Val Ser Leu Leu Leu Ile Leu Glu Pro Asp Lys Gln Glu
65 70 75 80

Ala Leu Ile Glu Ser Leu Cys Glu Lys Leu Val Lys Phe Arg Glu Gly
85 90 95

Glu Arg Pro Ser Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His Gly
100 105 110

Met Asp Lys Asn Thr Pro Val Arg Tyr Thr Val Tyr Cys Ser Leu Ile
115 120 125

Lys Val Ala Ala Ser Cys Gly Ala Ile Gln Tyr Ile Pro Thr Glu Leu
130 135 140

Asp Gln Val Arg Lys Trp Ile Ser Asp Trp Asn Leu Thr Thr Glu Lys
145 150 155 160

Lys His Thr Leu Leu Arg Leu Leu Tyr Glu Ala Leu Val Asp Cys Lys
165 170 175

Lys Ser Asp Ala Ala Ser Lys Val Met Val Glu Leu Leu Gly Ser Tyr
180 185 190

Thr Glu Asp Asn Ala Ser Gln Ala Arg Val Asp Ala His Arg Cys Ile
195 200 205

Val Arg Ala Leu Lys Asp Pro Asn Ala Phe Leu Phe Asp His Leu Leu
210 215 220

Thr Leu Lys Pro Val Lys Phe Leu Glu Gly Glu Leu Ile His Asp Leu
225 230 235 240

Leu Thr Ile Phe Val Ser Ala Lys Leu Ala Ser Tyr Val Lys Phe Tyr
245 250 255

Gln Asn Asn Lys Asp Phe Ile Asp Ser Leu Gly Leu Leu His Glu Gln
260 265 270

Asn Met Ala Lys Met Arg Leu Leu Thr Phe Met Gly Met Ala Val Glu
275 280 285

Asn Lys Glu Ile Ser Phe Asp Thr Met Gln Gln Glu Leu Gln Ile Gly
290 295 300

Ala Asp Asp Val Glu Ala Phe Val Ile Asp Ala Val Arg Thr Lys Met
305 310 315 320

Val Tyr Cys Lys Ile Asp Gln Thr Gln Arg Lys Val Val Val Ser His
325 330 335

Ser Thr His Arg Thr Phe Gly Lys Gln Gln Trp Gln Gln Leu Tyr Asp
340 345 350

Thr Leu Asn Ala Trp Lys Gln Asn Leu Asn Lys Val Lys Asn Ser Leu
355 360 365

Leu Ser Leu Ser Asp Thr
370

<210> 84
<211> 13
<212> PRT
<213> Homo sapiens

<400> 84
Met Ser Val Pro Ala Phe Ile Asp Ile Ser Glu Glu Asp
1 5 10

<210> 85
<211> 15
<212> PRT
<213> Homo sapiens

<400> 85
Gln Ala Ala Glu Leu Arg Ala Tyr Leu Lys Ser Lys Gly Ala Glu
1 5 10 15

<210> 86
<211> 17
<212> PRT
<213> Homo sapiens

<400> 86
Ile Ser Glu Glu Asn Ser Glu Gly Gly Leu His Val Asp Leu Ala Gln
1 5 10 15

Ile

<210> 87
<211> 18
<212> PRT
<213> Homo sapiens

<400> 87
Ile Glu Ala Cys Asp Val Cys Leu Lys Glu Asp Asp Lys Asp Val Glu
1 5 10 15

Ser Val

<210> 88
<211> 16

<212> PRT
<213> Homo sapiens

<400> 88
Val Ala Arg Pro Ser Ser Leu Phe Arg Ser Ala Trp Ser Cys Glu Trp
1 5 10 15

<210> 89
<211> 12
<212> PRT
<213> Homo sapiens

<400> 89
Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His Gly
1 5 10

<210> 90
<211> 17
<212> PRT
<213> Homo sapiens

<400> 90
Lys Asp Val Glu Ser Val Met Asn Ser Val Val Ser Leu Leu Leu Ile
1 5 10 15

Leu

<210> 91
<211> 26
<212> PRT
<213> Homo sapiens

<400> 91
Asp Ala Ala Ser Lys Val Met Val Glu Leu Leu Gly Ser Tyr Thr Glu
1 5 10 15

Asp Asn Ala Ser Gln Ala Arg Val Asp Ala
20 25

<210> 92
<211> 10
<212> PRT
<213> Homo sapiens

<400> 92
Val Glu Ala Phe Val Ile Asp Ala Val Arg
1 5 10

<210> 93

<211> 18
<212> PRT
<213> Homo sapiens

<400> 93
Lys Met Arg Leu Leu Thr Phe Met Gly Met Ala Val Glu Asn Lys Glu
1 5 10 15

Ile Ser

<210> 94
<211> 196
<212> PRT
<213> Homo sapiens

<400> 94
Met Glu Ala Val Pro Glu Gly Asp Trp Phe Cys Thr Val Cys Leu Ala
1 5 10 15

Gln Gln Val Glu Gly Glu Phe Thr Gln Lys Pro Gly Phe Pro Lys Arg
20 25 30

Gly Gln Lys Arg Lys Ser Gly Tyr Ser Leu Asn Phe Ser Glu Gly Asp
35 40 45

Gly Arg Arg Arg Arg Val Leu Leu Arg Gly Arg Glu Ser Pro Ala Ala
50 55 60

Gly Pro Arg Tyr Ser Glu Glu Gly Leu Ser Pro Ser Lys Arg Arg Arg
65 70 75 80

Leu Ser Met Arg Asn His His Ser Asp Leu Thr Phe Cys Glu Ile Ile
85 90 95

Leu Met Glu Met Glu Ser His Asp Ala Ala Trp Pro Phe Leu Glu Pro
100 105 110

Val Asn Pro Arg Leu Val Ser Gly Tyr Arg Arg Ile Ile Lys Asn Pro
115 120 125

Met Asp Phe Ser Thr Met Arg Glu Arg Leu Leu Arg Gly Gly Tyr Thr
130 135 140

Ser Ser Glu Glu Phe Ala Ala Asp Ala Leu Leu Val Phe Asp Asn Cys
145 150 155 160

Gln Thr Phe Asn Glu Asp Asp Ser Glu Val Gly Lys Ala Gly His Ile
165 170 175

Met Arg Arg Phe Phe Glu Ser Arg Trp Glu Glu Phe Tyr Gln Gly Lys
180 185 190

Gln Ala Asn Leu
195

<210> 95
<211> 20
<212> PRT
<213> Homo sapiens

<400> 95
Met Glu Ala Val Pro Glu Gly Asp Trp Phe Cys Thr Val Cys Leu Ala
1 5 10 15

Gln Gln Val Glu
20

<210> 96
<211> 21
<212> PRT
<213> Homo sapiens

<400> 96
Gly Glu Phe Thr Gln Lys Pro Gly Phe Pro Lys Arg Gly Gln Lys Arg
1 5 10 15

Lys Ser Gly Tyr Ser
20

<210> 97
<211> 21
<212> PRT
<213> Homo sapiens

<400> 97
Leu Asn Phe Ser Glu Gly Asp Gly Arg Arg Arg Arg Val Leu Leu Arg
1 5 10 15

Gly Arg Glu Ser Pro
20

<210> 98
<211> 20
<212> PRT
<213> Homo sapiens

<400> 98
Ala Ala Gly Pro Arg Tyr Ser Glu Glu Gly Leu Ser Pro Ser Lys Arg
1 5 10 15

Arg Arg Leu Ser
20

<210> 99
<211> 21
<212> PRT
<213> Homo sapiens

<400> 99

Met Arg Asn His His Ser Asp Leu Thr Phe Cys Glu Ile Ile Leu Met
1 5 10 15

Glu Met Glu Ser His
20

<210> 100
<211> 20
<212> PRT
<213> Homo sapiens

<400> 100
Asp Ala Ala Trp Pro Phe Leu Glu Pro Val Asn Pro Arg Leu Val Ser
1 5 10 15

Gly Tyr Arg Arg
20

<210> 101
<211> 21
<212> PRT
<213> Homo sapiens

<400> 101
Ile Ile Lys Asn Pro Met Asp Phe Ser Thr Met Arg Glu Arg Leu Leu
1 5 10 15

Arg Gly Gly Tyr Thr
20

<210> 102
<211> 21
<212> PRT
<213> Homo sapiens

<400> 102
Ser Ser Glu Glu Phe Ala Ala Asp Ala Leu Leu Val Phe Asp Asn Cys
1 5 10 15

Gln Thr Phe Asn Glu
20

<210> 103
<211> 17
<212> PRT
<213> Homo sapiens

<400> 103
Asp Asp Ser Glu Val Gly Lys Ala Gly His Ile Met Arg Arg Phe Phe
1 5 10 15

Glu

<210> 104
<211> 14
<212> PRT
<213> Homo sapiens

<400> 104
Ser Arg Trp Glu Glu Phe Tyr Gln Gly Lys Gln Ala Asn Leu
1 5 10

<210> 105
<211> 35
<212> PRT
<213> Homo sapiens

<400> 105
Met Ser Glu Ile Tyr Leu Arg Cys Gln Asp Glu Gln Gln Tyr Ala Arg
1 5 10 15

Trp Met Ala Gly Cys Arg Leu Ala Ser Lys Gly Arg Thr Met Ala Asp
20 25 30

Ser Ser Tyr
35

<210> 106
<211> 45
<212> PRT
<213> Homo sapiens

<400> 106
Leu Val Ala Pro Arg Phe Gln Arg Lys Phe Lys Ala Lys Gln Leu Thr
1 5 10 15

Pro Arg Ile Leu Glu Ala His Gln Asn Val Ala Gln Leu Ser Leu Ala
20 25 30

Glu Ala Gln Leu Arg Phe Ile Gln Ala Trp Gln Ser Leu
35 40 45

<210> 107
<211> 23
<212> PRT
<213> Homo sapiens

<400> 107
Val Gly Asp Val Val Lys Thr Trp Arg Phe Ser Asn Met Arg Gln Trp
1 5 10 15

Asn Val Asn Trp Asp Ile Arg
20

<210> 108
<211> 26

<212> PRT
<213> Homo sapiens

<400> 108
Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met Val Phe Ala Ala Leu
1 5 10 15

Gln Tyr His Ile Asn Lys Leu Ser Gln Ser
20 25

<210> 109
<211> 26
<212> PRT
<213> Homo sapiens

<400> 109
Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met Val Phe Ala Ala Leu
1 5 10 15

Gln Tyr His Ile Asn Lys Leu Ser Gln Ser
20 25

<210> 110
<211> 26
<212> PRT
<213> Homo sapiens

<400> 110
Lys Glu Leu Ser Phe Ala Arg Ile Lys Ala Val Glu Cys Val Glu Ser
1 5 10 15

Thr Gly Arg His Ile Tyr Phe Thr Leu Val
20 25

<210> 111
<211> 17
<212> PRT
<213> Homo sapiens

<400> 111
Gly Trp Asn Ala Gln Ile Thr Leu Gly Leu Val Lys Phe Lys Asn Gln
1 5 10 15

Gln

<210> 112
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (83)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 112

Met Val Thr Thr Ile Val Leu Gly Arg Arg Phe Ile Gly Ser Ile Val
1 5 10 15

Lys Glu Ala Ser Gln Arg Gly Lys Val Ser Leu Phe Arg Ser Ile Leu
20 25 30

Leu Phe Leu Thr Arg Phe Thr Val Leu Thr Ala Thr Gly Trp Ser Leu
35 40 45

Cys Arg Ser Leu Ile His Leu Phe Arg Thr Tyr Ser Phe Leu Asn Leu
50 55 60

Leu Phe Leu Cys Tyr Pro Phe Gly Met Tyr Ile Pro Phe Leu Gln Leu
65 70 75 80

Asn Xaa Xaa Leu Arg Lys Thr Ser Leu Phe Asn His Met Ala Ser Met
85 90 95

Gly Pro Arg Glu Ala Val Ser Gly Leu Ala Lys Ser Arg Asp Tyr Leu
100 105 110

Leu Thr Leu Arg Glu Thr Trp Lys Gln His Xaa Arg Gln Leu Tyr Gly
115 120 125

Pro Asp Ala Met Pro Thr His Ala Cys Cys Leu Ser Pro Ser Leu Ile
130 135 140

Arg Ser Glu Val Glu Phe Leu Lys Met Asp Phe Asn Trp Arg Met Lys
145 150 155 160

Glu Val Leu Val Ser Ser Met Leu Ser Ala Tyr Tyr Val Ala Phe Val
165 170 175

Pro Val Trp Phe Val Lys Asn Thr His Tyr Tyr Asp Lys Arg Trp Ser
180 185 190

Cys Xaa Thr Leu Pro Ala Gly Val His Gln His Leu Arg Asp Pro His
195 200 205

Ala Ala Pro Ala Ala Cys Gln Leu Leu

210 215

<210> 113
<211> 26
<212> PRT
<213> Homo sapiens

<400> 113
Met Val Thr Thr Ile Val Leu Gly Arg Arg Phe Ile Gly Ser Ile Val
1 5 10 15

Lys Glu Ala Ser Gln Arg Gly Lys Val Ser
20 25

<210> 114
<211> 23
<212> PRT
<213> Homo sapiens

<400> 114
Leu Phe Arg Ser Ile Leu Leu Phe Leu Thr Arg Phe Thr Val Leu Thr
1 5 10 15

Ala Thr Gly Trp Ser Leu Cys
20

<210> 115
<211> 30
<212> PRT
<213> Homo sapiens

<400> 115
Arg Ser Leu Ile His Leu Phe Arg Thr Tyr Ser Phe Leu Asn Leu Leu
1 5 10 15

Phe Leu Cys Tyr Pro Phe Gly Met Tyr Ile Pro Phe Leu Gln
20 25 30

<210> 116
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (3)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (4)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 116

Leu Asn Xaa Xaa Leu Arg Lys Thr Ser Leu Phe Asn His Met Ala Ser
1 5 10 15

Met Gly Pro Arg Glu Ala Val Ser Gly Leu Ala Lys Ser Arg
20 25 30

<210> 117
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 117
Asp Tyr Leu Leu Thr Leu Arg Glu Thr Trp Lys Gln His Xaa Arg Gln
1 5 10 15

Leu Tyr Gly Pro Asp Ala Met Pro Thr His Ala Cys Cys Leu
20 25 30

<210> 118
<211> 31
<212> PRT
<213> Homo sapiens

<400> 118
Ser Pro Ser Leu Ile Arg Ser Glu Val Glu Phe Leu Lys Met Asp Phe
1 5 10 15

Asn Trp Arg Met Lys Glu Val Leu Val Ser Ser Met Leu Ser Ala
20 25 30

<210> 119
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 119
Tyr Tyr Val Ala Phe Val Pro Val Trp Phe Val Lys Asn Thr His Tyr
1 5 10 15

Tyr Asp Lys Arg Trp Ser Cys Xaa Thr Leu Pro
20 25

<210> 120
<211> 20

<212> PRT
<213> Homo sapiens

<400> 120
Ala Gly Val His Gln His Leu Arg Asp Pro His Ala Ala Pro Ala Ala
1 5 10 15

Cys Gln Leu Leu
20

<210> 121
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 121
Leu Val Leu Gly Leu Ser Xaa Leu Asn Asn Ser Tyr Asn Phe Ser Phe
1 5 10 15

<210> 122
<211> 17
<212> PRT
<213> Homo sapiens

<400> 122
His Val Val Ile Gly Ser Gln Ala Glu Glu Gly Gln Tyr Ser Leu Asn
1 5 10 15

Phe

<210> 123
<211> 19
<212> PRT
<213> Homo sapiens

<400> 123
His Asn Cys Asn Asn Ser Val Pro Gly Lys Glu His Pro Phe Asp Ile
1 5 10 15

Thr Val Met

<210> 124
<211> 17
<212> PRT

<213> Homo sapiens

<400> 124
Phe Ile Lys Tyr Val Leu Ser Asp Lys Glu Lys Lys Val Phe Gly Ile
1 5 10 15

Val

<210> 125
<211> 13
<212> PRT
<213> Homo sapiens

<400> 125
Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile
1 5 10

<210> 126
<211> 13
<212> PRT
<213> Homo sapiens

<400> 126
Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile
1 5 10

<210> 127
<211> 15
<212> PRT
<213> Homo sapiens

<400> 127
Asp Gly Lys Val Ala Val Asn Leu Ala Lys Leu Lys Leu Phe Arg
1 5 10 15

<210> 128
<211> 13
<212> PRT
<213> Homo sapiens

<400> 128
Ile Arg Glu Lys Asn Pro Asp Gly Phe Leu Ser Ala Ala
1 5 10

<210> 129
<211> 9
<212> PRT
<213> Homo sapiens

<400> 129
Met Met Phe Gly Gly Tyr Glu Thr Ile
1 5

<210> 130
<211> 24
<212> PRT
<213> Homo sapiens

<400> 130
Tyr Arg Asp Glu Ser Ser Ser Glu Leu Ser Val Asp Ser Glu Val Glu
1 5 10 15

Phe Gln Leu Tyr Ser Gln Ile His
20

<210> 131
<211> 136
<212> PRT
<213> Homo sapiens

<400> 131
Tyr Ala Gln Asp Leu Asp Asp Val Ile Arg Glu Glu Glu His Glu Glu
1 5 10 15

Lys Asn Ser Gly Asn Ser Glu Ser Ser Ser Ser Lys Pro Asn Gln Lys
20 25 30

Lys Leu Ile Val Leu Ser Asp Ser Glu Val Ile Gln Leu Ser Asp Gly
35 40 45

Ser Glu Val Ile Thr Leu Ser Asp Glu Asp Ser Ile Tyr Arg Cys Lys
50 55 60

Gly Lys Asn Val Arg Val Gln Ala Gln Glu Asn Ala His Gly Leu Ser
65 70 75 80

Ser Ser Leu Gln Ser Asn Glu Leu Val Asp Lys Lys Cys Lys Ser Asp
85 90 95

Ile Glu Lys Pro Lys Ser Glu Glu Arg Ser Gly Val Ile Arg Glu Val
100 105 110

Met Ile Ile Glu Val Ser Ser Ser Glu Glu Glu Glu Ser Thr Ile Ser
115 120 125

Glu Gly Asp Asn Val Glu Ser Trp
130 135

<210> 132
<211> 37
<212> PRT
<213> Homo sapiens

<400> 132
Met Leu Leu Gly Cys Glu Val Asp Asp Lys Asp Asp Asp Ile Leu Leu
1 5 10 15

Asn Leu Val Gly Cys Glu Asn Ser Val Thr Glu Gly Glu Asp Gly Ile
20 25 30

Asn Trp Ser Ile Ser
35

<210> 133
<211> 18
<212> PRT
<213> Homo sapiens

<400> 133
Asp Lys Asp Ile Glu Ala Gln Ile Ala Asn Asn Arg Thr Pro Gly Arg
1 5 10 15

Trp Thr

<210> 134
<211> 31
<212> PRT
<213> Homo sapiens

<400> 134
Gln Arg Tyr Tyr Ser Ala Asn Lys Asn Ile Ile Cys Arg Asn Cys Asp
1 5 10 15

Lys Arg Gly His Leu Ser Lys Asn Cys Pro Leu Pro Arg Lys Val
20 25 30

<210> 135
<211> 179
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (120)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 135
Arg Arg Cys Phe Leu Cys Ser Arg Arg Gly His Leu Leu Tyr Ser Cys
1 5 10 15

Pro Ala Pro Leu Cys Glu Tyr Cys Pro Val Pro Lys Met Leu Asp His
20 25 30

Ser Cys Leu Phe Arg His Ser Trp Asp Lys Gln Cys Asp Arg Cys His
35 40 45

Met Leu Gly His Tyr Thr Asp Ala Cys Thr Glu Ile Trp Arg Gln Tyr
50 55 60

His Leu Thr Thr Lys Pro Gly Pro Pro Lys Lys Pro Lys Thr Pro Ser
65 70 75 80

Arg Pro Ser Ala Leu Ala Tyr Cys Tyr His Cys Ala Gln Lys Gly His
85 90 95

Tyr Gly His Glu Cys Pro Glu Arg Glu Val Tyr Asp Pro Ser Pro Val
100 105 110

Ser Pro Phe Ile Cys Tyr Tyr Xaa Asp Lys Tyr Glu Ile Gln Glu Arg
115 120 125

Glu Lys Arg Leu Lys Gln Lys Ile Lys Val Xaa Lys Lys Asn Gly Val
130 135 140

Ile Pro Glu Pro Ser Lys Leu Pro Tyr Ile Lys Ala Ala Asn Glu Asn
145 150 155 160

Pro His His Asp Ile Arg Lys Gly Arg Ala Ser Trp Lys Ser Asn Arg
165 170 175

Trp Pro Gln

<210> 136
<211> 416
<212> PRT
<213> Homo sapiens

<400> 136
Met Ser Phe Pro Pro His Leu Asn Arg Pro Pro Met Gly Ile Pro Ala
1 5 10 15

Leu Pro Pro Gly Ile Pro Pro Pro Gln Phe Pro Gly Phe Pro Pro Pro
20 25 30

Val Pro Pro Gly Thr Pro Met Ile Pro Val Pro Met Ser Ile Met Ala
35 40 45

Pro Ala Pro Thr Val Leu Val Pro Thr Val Ser Met Val Gly Lys His
50 55 60

Leu Gly Ala Arg Lys Asp His Pro Gly Leu Lys Ala Lys Glu Asn Asp
65 70 75 80

Glu Asn Cys Gly Pro Thr Thr Thr Val Phe Val Gly Asn Ile Ser Glu
85 90 95

Lys Ala Ser Asp Met Leu Ile Arg Gln Leu Leu Ala Lys Cys Gly Leu
100 105 110

Val Leu Ser Trp Lys Arg Val Gln Gly Ala Ser Gly Lys Leu Gln Ala
115 120 125

Phe Gly Phe Cys Glu Tyr Lys Glu Pro Glu Ser Thr Leu Arg Ala Leu
130 135 140

Arg Leu Leu His Asp Leu Gln Ile Gly Glu Lys Lys Leu Leu Val Lys
145 150 155 160

Val Asp Ala Lys Thr Lys Ala Gln Leu Asp Glu Trp Lys Ala Lys Lys
165 170 175

Lys Ala Ser Asn Gly Asn Ala Arg Pro Glu Thr Val Thr Asn Asp Asp
180 185 190

Glu Glu Ala Leu Asp Glu Glu Thr Lys Arg Arg Asp Gln Met Ile Lys
195 200 205

Gly Ala Ile Glu Val Leu Ile Arg Glu Tyr Ser Ser Glu Leu Asn Ala
210 215 220

Pro Ser Gln Glu Ser Asp Ser His Pro Arg Lys Lys Lys Lys Glu Lys
225 230 235 240

Lys Glu Asp Ile Phe Arg Arg Phe Pro Val Ala Pro Leu Ile Pro Tyr
245 250 255

Pro Leu Ile Thr Lys Glu Asp Ile Asn Ala Ile Glu Met Glu Glu Asp
260 265 270

Lys Arg Asp Leu Ile Ser Arg Glu Ile Ser Lys Phe Arg Asp Thr His
275 280 285

Lys Lys Leu Glu Glu Glu Lys Gly Lys Lys Glu Lys Glu Arg Gln Glu
290 295 300

Ile Glu Lys Glu Arg Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg
305 310 315 320

Glu Arg Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu
325 330 335

Lys Glu Lys Glu Arg Glu Arg Glu Arg Glu Arg Asp Arg Asp Arg Asp
340 345 350

Arg Thr Lys Glu Arg Asp Arg Asp Arg Asp Arg Glu Arg Asp Arg Asp
355 360 365

Arg Asp Arg Glu Arg Ser Ser Asp Arg Asn Lys Asp Arg Ile Arg Ser
370 375 380

Arg Glu Lys Ser Arg Asp Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu
385 390 395 400

Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu
405 410 415

<210> 137
<211> 43
<212> PRT
<213> Homo sapiens

<400> 137
Met Ser Phe Pro Pro His Leu Asn Arg Pro Pro Met Gly Ile Pro Ala
1 5 10 15

Leu Pro Pro Gly Ile Pro Pro Pro Gln Phe Pro Gly Phe Pro Pro Pro
20 25 30

Val Pro Pro Gly Thr Pro Met Ile Pro Val Pro
35 40

<210> 138
<211> 35
<212> PRT
<213> Homo sapiens

<400> 138
Met Ser Ile Met Ala Pro Ala Pro Thr Val Leu Val Pro Thr Val Ser
1 5 10 15

Met Val Gly Lys His Leu Gly Ala Arg Lys Asp His Pro Gly Leu Lys
20 25 30

Ala Lys Glu
35

<210> 139
<211> 41
<212> PRT
<213> Homo sapiens

<400> 139
Asn Asp Glu Asn Cys Gly Pro Thr Thr Thr Val Phe Val Gly Asn Ile
1 5 10 15

Ser Glu Lys Ala Ser Asp Met Leu Ile Arg Gln Leu Leu Ala Lys Cys
20 25 30

Gly Leu Val Leu Ser Trp Lys Arg Val
35 40

<210> 140
<211> 40
<212> PRT
<213> Homo sapiens

<400> 140
Gln Gly Ala Ser Gly Lys Leu Gln Ala Phe Gly Phe Cys Glu Tyr Lys
1 5 10 15

Glu Pro Glu Ser Thr Leu Arg Ala Leu Arg Leu Leu His Asp Leu Gln

20 25 30

Ile Gly Glu Lys Lys Leu Leu Val
35 40

<210> 141
<211> 39
<212> PRT
<213> Homo sapiens

<400> 141
Lys Val Asp Ala Lys Thr Lys Ala Gln Leu Asp Glu Trp Lys Ala Lys
1 5 10 15

Lys Lys Ala Ser Asn Gly Asn Ala Arg Pro Glu Thr Val Thr Asn Asp
20 25 30

Asp Glu Glu Ala Leu Asp Glu
35

<210> 142
<211> 40
<212> PRT
<213> Homo sapiens

<400> 142
Glu Thr Lys Arg Arg Asp Gln Met Ile Lys Gly Ala Ile Glu Val Leu
1 5 10 15

Ile Arg Glu Tyr Ser Ser Glu Leu Asn Ala Pro Ser Gln Glu Ser Asp
20 25 30

Ser His Pro Arg Lys Lys Lys Lys
35 40

<210> 143
<211> 44
<212> PRT
<213> Homo sapiens

<400> 143
Glu Lys Lys Glu Asp Ile Phe Arg Arg Phe Pro Val Ala Pro Leu Ile
1 5 10 15

Pro Tyr Pro Leu Ile Thr Lys Glu Asp Ile Asn Ala Ile Glu Met Glu
20 25 30

Glu Asp Lys Arg Asp Leu Ile Ser Arg Glu Ile Ser
35 40

<210> 144
<211> 41
<212> PRT
<213> Homo sapiens

<400> 144
Lys Phe Arg Asp Thr His Lys Lys Leu Glu Glu Glu Lys Gly Lys Lys
1 5 10 15

Glu Lys Glu Arg Gln Glu Ile Glu Lys Glu Arg Arg Glu Arg Glu Arg
20 25 30

Glu Arg Glu Arg Glu Arg Glu Arg Arg
35 40

<210> 145
<211> 93
<212> PRT
<213> Homo sapiens

<400> 145
Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Lys Glu Lys
1 5 10 15

Glu Arg Glu Arg Glu Arg Glu Arg Asp Arg Asp Arg Asp Arg Thr Lys
20 25 30

Glu Arg Asp Arg Asp Arg Asp Arg Glu Arg Asp Arg Asp Arg Asp Arg
35 40 45

Glu Arg Ser Ser Asp Arg Asn Lys Asp Arg Ile Arg Ser Arg Glu Lys
50 55 60

Ser Arg Asp Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg
65 70 75 80

Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu
85 90

<210> 146
<211> 52
<212> PRT
<213> Homo sapiens

<400> 146
Arg Asp Arg Asp Arg Asp Arg Glu Arg Ser Ser Asp Arg Asn Lys Asp
1 5 10 15

Arg Ile Arg Ser Arg Glu Lys Ser Arg Asp Arg Glu Arg Glu Arg Glu
20 25 30

Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu Arg Glu
35 40 45

Arg Glu Arg Glu
50

<210> 147
<211> 22

<212> PRT
<213> Homo sapiens

<400> 147
Lys Pro Gln Met Glu Gly Arg Leu Val Gly Gly Gly Gly Ser Phe Ser
1 5 10 15

Ser Arg Gly Arg His Pro
20

<210> 148
<211> 25
<212> PRT
<213> Homo sapiens

<400> 148
Leu Leu Val Pro Ser Pro Ser Leu Leu Pro Ala Val Ser Ser Tyr His
1 5 10 15

Leu Pro Leu Gly Arg Gly Leu Ile Arg
20 25

<210> 149
<211> 23
<212> PRT
<213> Homo sapiens

<400> 149
Glu Gln Gly Ser Ala Val Arg Ser Pro Ala Phe Pro Val Arg Gln Ala
1 5 10 15

Trp Leu Pro Cys Ser Gly Ser
20

<210> 150
<211> 151
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (123)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 150
Met Gly Leu Asn Pro Pro Gly Leu Thr Ser Ala Leu Lys Pro Gln Met
1 5 10 15

Glu Gly Arg Leu Val Gly Gly Gly Gly Ser Phe Ser Ser Arg Gly Arg
20 25 30

His Pro Ala Gly Trp Val Leu Pro Gln Pro Cys Leu Leu Leu Ser Pro
35 40 45

Thr Leu Ser Phe Pro Pro Ala Cys Gly Leu Leu Val Pro Ser Pro Ser

50 55 60

Leu Leu Pro Ala Val Ser Ser Tyr His Leu Pro Leu Gly Arg Gly Leu
65 70 75 80

Ile Arg Pro Ala Phe Lys Ile Lys Val Cys Ser Lys Leu Thr Val Trp
85 90 95

Cys Ser Leu Pro Ser Pro Ser Arg Trp Arg Cys Cys His Gly Asn Ala
100 105 110

Val Ala Leu Pro Ala Leu Gly Pro Trp Arg Xaa Trp Glu Gln Gly Ser
115 120 125

Ala Val Arg Ser Pro Ala Phe Pro Val Arg Gln Ala Trp Leu Pro Cys
130 135 140

Ser Gly Ser Leu Thr Ser Trp
145 150

<210> 151
<211> 64
<212> PRT
<213> Homo sapiens

<400> 151
Asn Val Thr Lys Ile Thr Leu Glu Ser Phe Leu Ala Trp Lys Lys Arg
1 5 10 15

Lys Arg Gln Glu Lys Ile Asp Lys Leu Glu Gln Asp Met Glu Arg Arg
20 25 30

Lys Ala Asp Phe Lys Ala Gly Lys Ala Leu Val Ile Ser Gly Arg Glu
35 40 45

Val Phe Glu Phe Arg Pro Glu Leu Val Asn Asp Asp Asp Glu Glu Ala
50 55 60

<210> 152
<211> 22
<212> PRT
<213> Homo sapiens

<400> 152
Glu Arg Arg Lys Ala Asp Phe Lys Ala Gly Lys Ala Leu Val Ile Ser
1 5 10 15

Gly Arg Glu Val Phe Glu
20

<210> 153
<211> 89

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 153
Met Cys Asp Glu Leu Pro Gly Glu Gly Arg Trp Glu Pro Gly Gln Asp
1 5 10 15

Arg Lys Leu Cys Leu Ser Phe Pro Leu Gly Thr Pro Ala Arg Pro Ile
20 25 30

Lys Ser Val Cys Pro Thr Leu Leu Ser Leu Val Phe Leu Ser Arg Gly
35 40 45

Met Glu Gln Arg Val Arg Glu Ala Val Ala Val Ser Thr Ser Ala Pro
50 55 60

Ala Pro Ser Ala Ser Glu Pro Phe Leu Ser Trp Gly Met Gly Leu Ala
65 70 75 80

Xaa Phe Ser Phe Pro Phe Leu Tyr Leu
85

<210> 154
<211> 95
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (71)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 154
Gly Ala Ser Leu Gly Ser Ser Ser Ser Cys Pro Ser His Ser Trp Trp
1 5 10 15

Gly Gln Arg Ser Val Cys Arg Glu Thr Ala Ser Pro Leu Pro Arg Trp
20 25 30

Met Leu Tyr Leu Asp Gly Leu Ala Thr Ser His Phe Leu His His Pro
35 40 45

Glu Pro His Leu Leu Pro Ser Pro Gly Val Phe Thr Arg Leu Cys Cys
50 55 60

His Leu Cys Pro Gly His Xaa Ser Leu Ser Gly Cys Val Met Asn Ser
65 70 75 80

Gln Glu Arg Glu Asp Gly Ser Gln Gly Lys Ile Gly Ser Ser Ala
85 90 95

<210> 155
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 155
Thr Ser Val Leu Ser Ser Ser Ser Val Tyr Cys Met Gln Ala Arg Lys
1 5 10 15

Leu Ser Val Ser Gln Arg Tyr Arg Lys Gly Lys Glu Lys Xaa Ala Arg
20 25 30

Pro Ile Pro Gln Glu Arg Lys Gly Ser Asp Ala Glu Gly Ala Gly Ala
35 40 45

Glu Val Glu Thr Ala Thr Ala Ser Leu Thr Leu Cys Ser Ile Pro Leu
50 55 60

Leu Lys Lys Thr Arg Leu Ser Arg Val Gly Gln Thr Leu Phe Ile Gly
65 70 75 80

Leu Ala Gly Val Pro Ser Gly Lys Leu Arg Gln Ser Phe Leu Ser Cys
85 90 95

Pro Gly Ser His Leu Pro Ser Pro Gly Ser Ser Ser His Ile Pro Arg
100 105 110

Gly Lys Xaa Val Leu Gly Arg Gly Gly Ser Lys Ala Gly
115 120 125

<210> 156
<211> 125
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 156
Ala Leu Val Lys Gly Thr Gly Arg Glu Lys Arg Arg Xaa Gln Gly Pro

1 5 10 15

Ser Pro Lys Lys Gly Arg Ala Leu Met Gln Arg Glu Gln Glu Leu Arg
20 25 30

Trp Arg Arg Pro Leu Pro Leu Ser Pro Ser Val Pro Ser Leu Cys Ser
35 40 45

Arg Lys Pro Gly Leu Ala Glu Trp Asp Arg Arg Phe Leu Leu Val Trp
50 55 60

Leu Ala Cys Leu Val Glu Ser Ser Gly Arg Ala Ser Tyr Leu Ala Leu
65 70 75 80

Ala Pro Ile Phe Pro Leu Leu Gly Val His His Thr Ser Arg Glu Gly
85 90 95

Xaa Val Ser Trp Ala Glu Val Ala Ala Lys Pro Gly Lys Asn Ser Arg
100 105 110

Ala Gly Lys Gln Met Gly Leu Arg Val Met Gln Lys Met
115 120 125

<210> 157
<211> 32
<212> PRT
<213> Homo sapiens

<400> 157
Ser Phe Pro Leu Gly Thr Pro Ala Arg Pro Ile Lys Ser Val Cys Pro
1 5 10 15

Thr Leu Leu Ser Leu Val Phe Leu Ser Arg Gly Met Glu Gln Arg Val
20 25 30

<210> 158
<211> 31
<212> PRT
<213> Homo sapiens

<400> 158
Thr Ala Ser Pro Leu Pro Arg Trp Met Leu Tyr Leu Asp Gly Leu Ala
1 5 10 15

Thr Ser His Phe Leu His His Pro Glu Pro His Leu Leu Pro Ser
20 25 30

<210> 159
<211> 31
<212> PRT
<213> Homo sapiens

<400> 159
Arg Lys Gly Ser Asp Ala Glu Gly Ala Gly Ala Glu Val Glu Thr Ala
1 5 10 15

Thr Ala Ser Leu Thr Leu Cys Ser Ile Pro Leu Leu Lys Lys Thr
20 25 30

<210> 160
<211> 25
<212> PRT
<213> Homo sapiens

<400> 160
Gln Arg Glu Gln Glu Leu Arg Trp Arg Arg Pro Leu Pro Leu Ser Pro
1 5 10 15

Ser Val Pro Ser Leu Cys Ser Arg Lys
20 25

<210> 161
<211> 29
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 161
Pro Leu Leu Gly Val His His Thr Ser Arg Glu Gly Xaa Val Ser Trp
1 5 10 15

Ala Glu Val Ala Ala Lys Pro Gly Lys Asn Ser Arg Ala
20 25

<210> 162
<211> 73
<212> PRT
<213> Homo sapiens

<400> 162
Met Ser Val Leu Lys Gly Glu Arg Gln Gln Thr Leu Ala Leu Ala Val
1 5 10 15

Leu Ser Val Ala Lys Glu Asn Ala Arg Asp Val Cys Cys Leu Gln Gly
20 25 30

Trp Gln Asp Thr Ser Cys Arg Asp Thr Ser Cys Ala Ala Leu Arg Gly
35 40 45

Gly Leu Gln Thr Leu Phe Pro Ala Pro Val His Phe Arg Cys Gly Gly
50 55 60

Pro Ala Glu Leu Lys Gly Arg Gly Ser

65 70

<210> 163
<211> 68
<212> PRT
<213> Homo sapiens

<400> 163
Ala His Ser Phe Thr Thr Pro Glu Glu Ala Arg Gly Ala Gly Ser Met
1 5 10 15

Gly Cys Arg Phe Pro Phe Lys His Thr His Ser Pro His Pro Arg Arg
20 25 30

Pro Glu Val Gln Gly Ala Trp Ala Gly Cys Thr Ser Ala Gly Glu Lys
35 40 45

Ala Glu Pro Pro Pro Ser Arg Glu Pro Gly Ser Gln Ala Ser Arg Phe
50 55 60

Pro Leu Pro Pro
65

<210> 164
<211> 25
<212> PRT
<213> Homo sapiens

<400> 164
Gly Trp Gln Asp Thr Ser Cys Arg Asp Thr Ser Cys Ala Ala Leu Arg
1 5 10 15

Gly Gly Leu Gln Thr Leu Phe Pro Ala
20 25

<210> 165
<211> 24
<212> PRT
<213> Homo sapiens

<400> 165
Gly Cys Arg Phe Pro Phe Lys His Thr His Ser Pro His Pro Arg Arg
1 5 10 15

Pro Glu Val Gln Gly Ala Trp Ala
20

<210> 166
<211> 81
<212> PRT
<213> Homo sapiens

<400> 166
Pro His Gln Val Glu Gly Arg Leu Gly Thr Met Glu Thr Trp Asp Ser

1 5 10 15

Ser His Glu Gly Leu Leu His Cys Arg Ile Pro Leu Lys Gly Ser Trp
20 25 30

Val Gln Glu Pro Ser Cys Gln Tyr Gln Trp Arg Arg Thr Arg Cys Met
35 40 45

Gly Ile Pro Pro Ala Thr Ser Gly Trp Pro Cys Arg Ala Pro Ala Phe
50 55 60

Leu Cys Ala Arg Ala Glu Phe Pro Ala Ser Pro Gly Gly Ser Thr Asn
65 70 75 80

Phe

<210> 167
<211> 81
<212> PRT
<213> Homo sapiens

<400> 167
Leu Val Thr Pro Pro Ser Gly Gly Glu Thr Gly Asp His Gly Asn Met
1 5 10 15

Gly Gln Leu Pro Arg Arg Ala Leu Ala Leu Gln Asn Ser Thr Gln Gly
20 25 30

Ile Leu Gly Pro Gly Ala Glu Leu Pro Val Ser Val Glu Lys Asp Lys
35 40 45

Val His Gly Asp Pro Ala Ser Asn Ile Arg Met Ala Met Pro Gly Thr
50 55 60

Arg Phe Pro Leu Cys Ser Cys Arg Ile Pro Cys Gln Pro Gly Gly Ile
65 70 75 80

His

<210> 168
<211> 32
<212> PRT
<213> Homo sapiens

<400> 168
Glu Gly Leu Leu His Cys Arg Ile Pro Leu Lys Gly Ser Trp Val Gln
1 5 10 15

Glu Pro Ser Cys Gln Tyr Gln Trp Arg Arg Thr Arg Cys Met Gly Ile
20 25 30

<210> 169
<211> 29
<212> PRT
<213> Homo sapiens

<400> 169
Gln Asn Ser Thr Gln Gly Ile Leu Gly Pro Gly Ala Glu Leu Pro Val
1 5 10 15

Ser Val Glu Lys Asp Lys Val His Gly Asp Pro Ala Ser
20 25

<210> 170
<211> 42
<212> PRT
<213> Homo sapiens

<400> 170
Phe Gly Thr Arg Lys Lys Tyr His Leu Cys Met Ile Pro Asn Leu Asp
1 5 10 15

Leu Asn Leu Asp Arg Asp Leu Val Leu Pro Asp Val Ser Tyr Gln Val
20 25 30

Glu Ser Ser Glu Glu Asp Gln Ser Gln Thr
35 40

<210> 171
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 171
Phe Leu Leu Ser Leu Gly Ser Leu Val Met Leu Leu Gln Asp Leu Val
1 5 10 15

His Ser Glu Leu Asp Gly Thr Leu His Tyr Thr Val Ala Leu His Lys
20 25 30

Asp Gly Ile Glu Met Ser Cys Glu Gln Ser Ile Asp Ser Pro Asp Phe
35 40 45

His Leu Leu Asp Trp Lys Cys Thr Val Glu Ile His Lys Glu Lys Lys
50 55 60

Gln Gln Ser Leu Ser Leu Arg Ile His Ser Leu Arg Leu Ile Leu Leu
65 70 75 80

Thr Gly Phe His Leu Ile Thr Xaa Ile Trp Lys His Gln Ile Ser Ile
85 90 95

Gln Ile Glu Ile Gln Ile Gly Tyr His Thr Gln Met Val Phe Phe Pro
100 105 110

Arg Ala Glu
115

<210> 172
<211> 26
<212> PRT
<213> Homo sapiens

<400> 172
Val His Ser Glu Leu Asp Gly Thr Leu His Tyr Thr Val Ala Leu His
1 5 10 15

Lys Asp Gly Ile Glu Met Ser Cys Glu Gln
20 25

<210> 173
<211> 28
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 173
Gln Ser Leu Ser Leu Arg Ile His Ser Leu Arg Leu Ile Leu Leu Thr
1 5 10 15

Gly Phe His Leu Ile Thr Xaa Ile Trp Lys His Gln
20 25

<210> 174
<211> 340
<212> PRT
<213> Homo sapiens

<400> 174
Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Thr Ala Cys Ser Ser
1 5 10 15

Ala Cys Ile Cys Phe Cys Asp Arg Gly Pro Cys Leu Gly Trp Asn Asp
20 25 30

Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His Tyr
35 40 45

Asp Arg Tyr Thr Thr Ser Arg Ser Trp Ile Pro Ser His Ser Pro Gln
50 55 60

Leu Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys

65 70 75 80

Val Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp
85 90 95

Glu Cys Lys Thr Asp Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val
100 105 110

Val Ser Cys Glu Gly Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg
115 120 125

Gly Ser Cys Gly Leu Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu
130 135 140

Gln Lys Leu Lys Glu Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser
145 150 155 160

Asp Tyr Tyr Tyr Lys Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly
165 170 175

Leu Ile Thr Ile Val Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys
180 185 190

Leu Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr
195 200 205

Pro Pro Phe Ser His Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro
210 215 220

Pro Pro Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly
225 230 235 240

His Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly
245 250 255

Tyr Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly
260 265 270

Ile Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser
275 280 285

Asp Ser Trp Tyr Tyr Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp
290 295 300

Asn Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val
305 310 315 320

Cys Ser Asn Ser Asp Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly
325 330 335

Thr Arg Arg Arg
340

<210> 175
<211> 24
<212> PRT
<213> Homo sapiens

<400> 175
Ala Cys Ser Ser Ala Cys Ile Cys Phe Cys Asp Arg Gly Pro Cys Leu
1 5 10 15

Gly Trp Asn Asp Pro Asp Arg Met
20

<210> 176
<211> 26
<212> PRT
<213> Homo sapiens

<400> 176
Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln Asn
1 5 10 15

Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp
20 25

<210> 177
<211> 32
<212> PRT
<213> Homo sapiens

<400> 177
Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu
1 5 10 15

Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys
20 25 30

<210> 178
<211> 28
<212> PRT
<213> Homo sapiens

<400> 178
Tyr Lys Leu Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser
1 5 10 15

Glu Tyr Pro Pro Phe Ser His Arg Tyr Gln Arg Phe
20 25

<210> 179
<211> 26
<212> PRT
<213> Homo sapiens

<400> 179
Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile

[redacted] [redacted]

1 5 10 15

Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala
20 25

<210> 180
<211> 25
<212> PRT
<213> Homo sapiens

<400> 180
Asn Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val
1 5 10 15

Cys Ser Asn Ser Asp Thr Lys Thr Arg
20 25

<210> 181
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 181
Thr Glu Ser Gln Met Lys Cys Phe Leu Gly Asn Ser His Asp Thr Ala
1 5 10 15

Pro Arg His Thr Cys Ser Gly Gln Gly Leu His Gly Gly Xaa Xaa Xaa
20 25 30

Thr Ala Pro Leu Arg Ala Leu Gln Gln His Ser Gln Asp Gly Lys Leu
35 40 45

Cys Thr Asn Ser Leu Pro Ala Ala Arg Gly Gly Pro His Lys His Val
50 55 60

Val Val Thr Val Val Tyr Ser Val Lys His Trp Lys Pro Thr Glu Arg
65 70 75 80

Ser Ser Val Ser Ile Lys Lys Glu Glu Glu Thr Asp Trp Asp Met Asp
85 90 95

Gln Leu Ser Lys Gln Arg Thr Thr Tyr Glu Met Lys Ser Gly Ser Ser
100 105 110

Gly Val Gln Thr Glu Glu Leu Arg His Pro Ser Leu
115 120

<210> 182
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (23)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 182
Asn Ala Ser Trp Glu Ile His Met Thr Gln Arg His Val Ile Pro Xaa
1 5 10 15

Leu Ala Arg Ala Ser Met Xaa Val Xaa Xaa Xaa Gln Arg Pro Ser Glu
20 25 30

Leu Cys Ser Ser Ile Arg Arg Met Ala Asn Ser Ala Gln Ile Val Phe
35 40 45

Pro Leu Pro Val Gly Ala Pro Thr Asn Thr Leu Ser Ser Leu Leu Tyr
50 55 60

Thr Val Leu Asn Thr Gly Asn Gln Gln Lys Glu Ala Val
65 70 75

<210> 183
<211> 30
<212> PRT
<213> Homo sapiens

<400> 183
Ala Pro Leu Arg Ala Leu Gln Gln His Ser Gln Asp Gly Lys Leu Cys
1 5 10 15

Thr Asn Ser Leu Pro Ala Ala Arg Gly Gly Pro His Lys His
20 25 30

<210> 184
<211> 27
<212> PRT
<213> Homo sapiens

<400> 184
Arg Ser Ser Val Ser Ile Lys Lys Glu Glu Glu Thr Asp Trp Asp Met
1 5 10 15

Asp Gln Leu Ser Lys Gln Arg Thr Thr Tyr Glu
20 25

<210> 185
<211> 29
<212> PRT
<213> Homo sapiens

<400> 185
Leu Cys Ser Ser Ile Arg Arg Met Ala Asn Ser Ala Gln Ile Val Phe
1 5 10 15

Pro Leu Pro Val Gly Ala Pro Thr Asn Thr Leu Ser Ser
20 25

<210> 186
<211> 17
<212> PRT
<213> Homo sapiens

<400> 186
Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys Leu Gln
1 5 10 15

Leu

<210> 187
<211> 67
<212> PRT
<213> Homo sapiens

<400> 187
Gly Ser Cys Phe Ala Thr Trp Ala Phe Ile Gln Lys Asn Thr Asn His
1 5 10 15

Arg Cys Val Ser Ile Tyr Leu Ile Asn Leu Leu Thr Ala Asp Phe Leu

20 25 30

Leu Thr Leu Ala Leu Pro Val Lys Ile Val Val Asp Leu Gly Val Ala
35 40 45

Pro Trp Lys Leu Lys Ile Phe His Cys Gln Val Thr Ala Cys Leu Ile
50 55 60

Tyr Ile Asn
65

<210> 188
<211> 31
<212> PRT
<213> Homo sapiens

<400> 188
Lys Asn Thr Asn His Arg Cys Val Ser Ile Tyr Leu Ile Asn Leu Leu
1 5 10 15

Thr Ala Asp Phe Leu Leu Thr Leu Ala Leu Pro Val Lys Ile Val
20 25 30

<210> 189
<211> 17
<212> PRT
<213> Homo sapiens

<400> 189
Lys His Thr Val Glu Thr Arg Ser Val Ala Phe Arg Lys Gln Leu Asn
1 5 10 15

Arg

<210> 190
<211> 30
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (29)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 190
Pro Gln Val Leu His Leu Arg Trp Leu Pro Lys Val Leu Gly Tyr Arg
1 5 10 15

Ser Xaa Pro Leu Arg Leu Ala Asp Pro Ser Thr Phe Xaa Met

20 25 30

<210> 191
<211> 131
<212> PRT
<213> Homo sapiens

<400> 191
Gln Leu Leu Gly Phe Glu Gly Asn Asp Ser Ala Gly Glu Arg Arg Trp
1 5 10 15

Arg Gly Ala Asn Met Gln Ile Pro Leu Leu Gln Val Ala Leu Pro Leu
20 25 30

Ser Thr Glu Glu Gly Thr Gly Pro Ser Gly Pro Thr Gln Pro Ser Pro
35 40 45

Gln Gly Glu Val Arg Phe Leu Arg Ser Pro Arg Met Gly Gly Gln Val
50 55 60

Pro His Trp Glu Trp Arg Ser His Ser Leu Pro Trp Val Leu Thr Ser
65 70 75 80

Thr Leu Ser Gly Cys Glu Gly Asp Leu Pro Gly Phe Pro His Gln Val
85 90 95

Gln Leu Pro Ala Ala Glu Ser His Thr Leu Asn Thr Gly Leu Leu Arg
100 105 110

Ser Asp Thr Gly Gln Phe Thr Pro Cys Leu Lys Leu Ala Phe Glu Arg
115 120 125

Pro Ser Gly
130

<210> 192
<211> 24
<212> PRT
<213> Homo sapiens

<400> 192
Asn Asp Ser Ala Gly Glu Arg Arg Trp Arg Gly Ala Asn Met Gln Ile
1 5 10 15

Pro Leu Leu Gln Val Ala Leu Pro
20

<210> 193
<211> 29
<212> PRT
<213> Homo sapiens

<400> 193
Pro Ser Pro Gln Gly Glu Val Arg Phe Leu Arg Ser Pro Arg Met Gly
1 5 10 15

Gly Gln Val Pro His Trp Glu Trp Arg Ser His Ser Leu
20 25

<210> 194
<211> 27
<212> PRT
<213> Homo sapiens

<400> 194
His Gln Val Gln Leu Pro Ala Ala Glu Ser His Thr Leu Asn Thr Gly
1 5 10 15

Leu Leu Arg Ser Asp Thr Gly Gln Phe Thr Pro
20 25

<210> 195
<211> 60
<212> PRT
<213> Homo sapiens

<400> 195
Ala Pro Leu Glu Thr Met Gln Asn Lys Pro Arg Ala Pro Gln Lys Arg
1 5 10 15

Ala Leu Pro Phe Pro Glu Leu Glu Leu Arg Asp Tyr Ala Ser Val Leu
20 25 30

Thr Arg Tyr Ser Leu Gly Leu Arg Asn Lys Glu Pro Ser Leu Gly His
35 40 45

Arg Trp Gly Thr Gln Lys Leu Gly Arg Ser Pro Cys
50 55 60

<210> 196
<211> 217
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (157)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 196

Met Gln Asn Lys Pro Arg Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro
1 5 10 15

Glu Leu Glu Leu Arg Asp Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu
20 25 30

Gly Leu Arg Asn Lys Glu Pro Ser Leu Gly His Arg Trp Gly Thr Gln
35 40 45

Lys Leu Gly Arg Ser Pro Cys Ser Glu Gly Ser Gln Gly His Thr Thr
50 55 60

Asp Ala Ala Asp Val Gln Asn His Ser Lys Glu Glu Gln Arg Asp Ala
65 70 75 80

Gly Ala Gln Arg Xaa Cys Gly Gln Gly Arg His Thr Trp Ala Tyr Arg
85 90 95

Xaa Gly Ala Gln Asp Thr Ser Arg Leu Thr Gly Asp Pro Arg Gly Gly
100 105 110

Glu Arg Ser Pro Pro Lys Cys Gln Ser Met Lys Gln Gln Glu Gly Ala
115 120 125

Pro Ser Gly His Cys Trp Asp Gln Trp Cys His Gly Ala Ser Glu Val
130 135 140

Val Trp Pro Glu Ser Arg Lys Arg Ala Gln Ile Phe Xaa Ser Pro Cys
145 150 155 160

Arg Gln Ser Pro Arg Ser Ser Ala Leu Gly Ala Gly Gln Lys Leu Ala
165 170 175

Val Cys Ser Pro Asp Ile Leu Cys Cys Pro Thr Asp Thr Leu Leu Ala
180 185 190

Ser His Pro His Ser Leu Leu Thr Gly Thr Gln Phe Ser Gly Gln Thr
195 200 205

Gln Ala Leu Ala Pro Ser Trp Cys Ala
210 215

<210> 197
<211> 26
<212> PRT
<213> Homo sapiens

<400> 197
Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro Glu Leu Glu Leu Arg Asp
1 5 10 15

Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu
20 25

<210> 198
<211> 27

<212> PRT
<213> Homo sapiens

<400> 198
Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro Glu Leu Glu Leu Arg Asp
1 5 10 15

Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu Gly
20 25

<210> 199
<211> 29
<212> PRT
<213> Homo sapiens

<400> 199
Leu Gly Arg Ser Pro Cys Ser Glu Gly Ser Gln Gly His Thr Thr Asp
1 5 10 15

Ala Ala Asp Val Gln Asn His Ser Lys Glu Glu Gln Arg
20 25

<210> 200
<211> 25
<212> PRT
<213> Homo sapiens

<400> 200
Thr Asp Thr Leu Leu Ala Ser His Pro His Ser Leu Leu Thr Gly Thr
1 5 10 15

Gln Phe Ser Gly Gln Thr Gln Ala Leu
20 25

<210> 201
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (13)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 201

Ile Ala Gln Val Leu Lys Ala Glu Met Cys Leu Val Xaa Arg Pro His
1 5 10 15

Pro Xaa Leu Leu Asp Ser His Arg Gly Trp Ala Gly Glu Thr Leu Arg
20 25 30

Gly Gln Gly Arg Gln Glu Xaa Glu Ser Asp Thr Lys Ala Gly Thr Leu
35 40 45

Gln Leu Gln Arg Gln Ala Pro Leu Pro Leu Thr Gln His Ser Leu Val
50 55 60

Leu Pro Ile Ser Pro Gly Pro Ser Asn His Thr Gln Ser
65 70 75

<210> 202
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 202
Arg Gly Trp Ala Gly Glu Thr Leu Arg Gly Gln Gly Arg Gln Glu Xaa
1 5 10 15

Glu Ser Asp Thr
20

<210> 203
<211> 20
<212> PRT
<213> Homo sapiens

<400> 203
Ala Pro Leu Pro Leu Thr Gln His Ser Leu Val Leu Pro Ile Ser Pro
1 5 10 15

Gly Pro Ser Asn
20

<210> 204
<211> 166
<212> PRT
<213> Homo sapiens

<400> 204
Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
20 25 30

Cys Trp Pro Cys Leu His Gln Trp Leu Glu Thr Arg Pro Glu Arg Gln
35 40 45

Glu Cys Pro Val Cys Lys Ala Gly Ile Ser Arg Glu Lys Val Val Pro
50 55 60

Leu Tyr Gly Arg Gly Ser Gln Lys Pro Gln Asp Pro Arg Leu Lys Thr
65 70 75 80

Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly Gly
85 90 95

Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly Val
100 105 110

Gly Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu
115 120 125

Pro Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala
130 135 140

Ser Ser Trp Gln Asp Ser Leu Phe Leu Phe Leu Ala Ile Phe Phe Phe
145 150 155 160

Phe Trp Leu Leu Ser Ile
165

<210> 205
<211> 149
<212> PRT
<213> Homo sapiens

<400> 205
Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
20 25 30

Cys Trp Pro Cys Leu His Gln Trp Leu Glu Thr Arg Pro Glu Arg Gln
35 40 45

Glu Cys Pro Val Cys Lys Ala Gly Ile Ser Arg Glu Lys Val Val Pro
50 55 60

Leu Tyr Gly Arg Gly Ser Gln Lys Pro Gln Asp Pro Arg Leu Lys Thr
65 70 75 80

Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly Gly
85 90 95

Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly Val
100 105 110

Gly Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu
115 120 125

Pro Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala
130 135 140

Ser Ser Trp Gln Asp
145

<210> 206
<211> 41
<212> PRT
<213> Homo sapiens

<400> 206
Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
20 25 30

Cys Trp Pro Cys Leu His Gln Trp Leu
35 40

<210> 207
<211> 38
<212> PRT
<213> Homo sapiens

<400> 207
Glu Thr Arg Pro Glu Arg Gln Glu Cys Pro Val Cys Lys Ala Gly Ile
1 5 10 15

Ser Arg Glu Lys Val Val Pro Leu Tyr Gly Arg Gly Ser Gln Lys Pro
20 25 30

Gln Asp Pro Arg Leu Lys
35

<210> 208
<211> 34
<212> PRT
<213> Homo sapiens

<400> 208
Thr Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly
1 5 10 15

Gly Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly
20 25 30

Val Gly

<210> 209
<211> 36

<212> PRT
<213> Homo sapiens

<400> 209
Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu Pro
1 5 10 15

Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala Ser
20 25 30

Ser Trp Gln Asp
35

<210> 210
<211> 15
<212> PRT
<213> Homo sapiens

<400> 210
Gly Leu Ser Thr Gly Pro Asp Met Ala Ser Leu Asp Leu Phe Val
1 5 10 15

<210> 211
<211> 97
<212> PRT
<213> Homo sapiens

<400> 211
Gly Arg Pro Thr Arg Pro Ser Gln Ala Thr Arg His Phe Leu Leu Gly
1 5 10 15

Thr Leu Phe Thr Asn Cys Leu Cys Gly Thr Phe Cys Phe Pro Cys Leu
20 25 30

Gly Cys Gln Val Ala Ala Asp Met Asn Glu Cys Cys Leu Cys Gly Thr
35 40 45

Ser Val Ala Met Arg Thr Leu Tyr Arg Thr Arg Tyr Gly Ile Pro Gly
50 55 60

Ser Ile Cys Asp Asp Tyr Met Ala Thr Leu Cys Cys Pro His Cys Thr
65 70 75 80

Leu Cys Gln Ile Lys Arg Asp Ile Asn Arg Arg Arg Ala Met Arg Thr
85 90 95

Phe

<210> 212
<211> 146
<212> PRT
<213> Homo sapiens

<400> 212

Ile Lys Asn Leu Ile Phe Phe Met Pro Ser Val Val Leu Lys His Ile
1 5 10 15

His His Ile Ser Val Ala Lys Asp Gly Glu Glu Leu Lys Leu Lys Arg
20 25 30

Cys Leu Leu Asn Phe Val Ala Ser Val Arg Ala Phe His His Gln Phe
35 40 45

Leu Glu Ser Thr His Gly Ser Pro Ser Val Asp Ile Ser Leu Asp Leu
50 55 60

Ala Lys Ser Thr Met Arg Thr Ala Lys Ser Cys His Ile Val Ile Thr
65 70 75 80

Asn Arg Ser Arg Asp Ala Ile Ser Gly Pro Val Glu Ser Pro His Cys
85 90 95

Asp Ala Cys Ser Thr Gln Thr Ala Phe Ile His Ile Ser Cys Asn Leu
100 105 110

Thr Pro Lys Ala Arg Glu Thr Lys Cys Ala Thr Glu Thr Ile Ser Lys
115 120 125

Gln Gly Ser Glu Gln Glu Met Ser Cys Gly Leu Gly Arg Thr Arg Gly
130 135 140

Ser Thr
145

<210> 213
<211> 23
<212> PRT
<213> Homo sapiens

<400> 213
Phe Leu Leu Gly Thr Leu Phe Thr Asn Cys Leu Cys Gly Thr Phe Cys
1 5 10 15

Phe Pro Cys Leu Gly Cys Gln
20

<210> 214
<211> 24
<212> PRT
<213> Homo sapiens

<400> 214
Ser Ile Cys Asp Asp Tyr Met Ala Thr Leu Cys Cys Pro His Cys Thr
1 5 10 15

Leu Cys Gln Ile Lys Arg Asp Ile
20

<210> 215

<211> 30
<212> PRT
<213> Homo sapiens

<400> 215
Ser Val Val Leu Lys His Ile His His Ile Ser Val Ala Lys Asp Gly
1 5 10 15

Glu Glu Leu Lys Leu Lys Arg Cys Leu Leu Asn Phe Val Ala
20 25 30

<210> 216
<211> 26
<212> PRT
<213> Homo sapiens

<400> 216
Asn Phe Val Ala Ser Val Arg Ala Phe His His Gln Phe Leu Glu Ser
1 5 10 15

Thr His Gly Ser Pro Ser Val Asp Ile Ser
20 25

<210> 217
<211> 28
<212> PRT
<213> Homo sapiens

<400> 217
Thr Ala Phe Ile His Ile Ser Cys Asn Leu Thr Pro Lys Ala Arg Glu
1 5 10 15

Thr Lys Cys Ala Thr Glu Thr Ile Ser Lys Gln Gly
20 25

<210> 218
<211> 6
<212> PRT
<213> Homo sapiens

<400> 218
Met Lys Gly Glu Ile Glu
1 5

<210> 219
<211> 14
<212> PRT
<213> Homo sapiens

<400> 219
Glu Phe Gly Thr Ser Arg Gly Arg Gln His Arg Ala Leu Glu
1 5 10

<210> 220
<211> 80
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 220
His Gln Thr Pro Gly Val Thr Gly Leu Ser Ala Val Glu Met Asp Gln
1 5 10 15

Ile Thr Pro Ala Leu Trp Glu Ala Leu Ala Ile Asp Thr Leu Arg Lys
20 25 30

Leu Arg Ile Gly Thr Arg Arg Pro Arg Ile Arg Trp Gly Gln Glu Ala
35 40 45

His Val Pro Ala Gly Ala Ala Gln Glu Gly Pro Leu His Leu Leu Leu
50 55 60

Gln Arg Pro Ala Pro Trp Gly Xaa Ala Pro His Gly Lys Ala Cys Gly
65 70 75 80

<210> 221
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 221
Gly Leu Gly Gln Gly Gly Gln Gly Leu Asp Gly Gly Arg Lys Leu Met
1 5 10 15

Tyr Leu Gln Glu Leu Pro Arg Arg Asp His Tyr Ile Phe Tyr Cys Lys
20 25 30

Asp Gln His His Gly Gly Xaa Leu His Met Gly Lys Leu Val Gly Arg
35 40 45

Asn Ser Asp Thr Asn Arg Glu Ala Leu Glu Glu Phe Lys Lys Leu Val
50 55 60

Gln Arg Lys Gly Leu Ser Glu Glu Asp Ile Phe Thr Pro Leu Gln Thr
65 70 75 80

Gly Ser Cys Val Pro Glu His
85

<210> 222
<211> 176
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (152)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 222
Ser Gly Pro Ser Arg Leu Arg Thr Ser Leu Ser His Pro Val Ser Asp
1 5 10 15

Val Arg Ala Thr Ser Pro Pro Gly Arg Arg Gly Gln Pro Leu Leu Gly
20 25 30

Gly Gly Gln Ser Trp Gly Pro Gly Lys Arg Ala Ala Trp Ala Leu Ser
35 40 45

Thr Cys Gly Gly Trp Cys Thr Gly Val Gly Gly Gly Gly Xaa Trp Gly
50 55 60

Trp Glu Trp Gly Arg Gly Ser Gln Ala Leu Tyr Leu Pro Gly Ser Ser
65 70 75 80

Val Phe Arg Xaa Arg Ile Phe Phe Trp Met His Arg Ser Ser Leu Met
85 90 95

Lys Val Asn Val Ala Ser Asn Phe Pro Pro Pro Arg Ala Val Thr Phe
100 105 110

Thr Gly Asp Thr Phe Trp Ala Ser Cys Leu Arg Lys Val Leu Ser Thr
115 120 125

Thr Met Ala Phe Thr Tyr Gln Val Pro Val Ile Ser Ser Ser Xaa Arg
130 135 140

Val Lys Asp Arg Ala Ala Ala Xaa Pro Ser Val Thr Pro Arg Asn Arg
145 150 155 160

Val Phe Ile Ser Arg Ala Leu Cys Cys Arg Pro Arg Leu Val Pro Asn
165 170 175

<210> 223
<211> 103
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (74)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (92)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 223
Gly Leu Pro Glu Gly Arg Arg Asp Leu Val His Leu Asp Cys Gly Gln
1 5 10 15

Ala Cys His Thr Arg Cys Leu Met Ser Gly Pro Pro Ala Pro Gln Glu
20 25 30

Gly Glu Ala Ser Pro Ser Leu Glu Val Gly Arg Ala Gly Ala Leu Ala
35 40 45

Lys Gly Gln Pro Gly His Ser Leu Pro Val Glu Ala Gly Ala Leu Gly
50 55 60

Leu Ala Val Gly Glu Gly Gly Gly Gly Xaa Gly Gly Gly Ala His Arg
65 70 75 80

Arg Cys Ile Cys Gln Ala Pro Pro Ser Ser Ala Xaa Gly Phe Ser Ser
85 90 95

Gly Cys Thr Asp Pro Pro Ser
100

<210> 224
<211> 30
<212> PRT
<213> Homo sapiens

<400> 224
Val Glu Met Asp Gln Ile Thr Pro Ala Leu Trp Glu Ala Leu Ala Ile
1 5 10 15

Asp Thr Leu Arg Lys Leu Arg Ile Gly Thr Arg Arg Pro Arg
20 25 30

<210> 225
<211> 23
<212> PRT
<213> Homo sapiens

<400> 225
Arg Lys Leu Met Tyr Leu Gln Glu Leu Pro Arg Arg Asp His Tyr Ile
1 5 10 15

Phe Tyr Cys Lys Asp Gln His
20

<210> 226
<211> 23
<212> PRT
<213> Homo sapiens

<400> 226
Glu Ala Leu Glu Glu Phe Lys Lys Leu Val Gln Arg Lys Gly Leu Ser
1 5 10 15

Glu Glu Asp Ile Phe Thr Pro
20

<210> 227
<211> 27
<212> PRT
<213> Homo sapiens

<400> 227
Arg Ala Thr Ser Pro Pro Gly Arg Arg Gly Gln Pro Leu Leu Gly Gly
1 5 10 15

Gly Gln Ser Trp Gly Pro Gly Lys Arg Ala Ala
20 25

<210> 228
<211> 29
<212> PRT
<213> Homo sapiens

<400> 228
Phe Phe Trp Met His Arg Ser Ser Leu Met Lys Val Asn Val Ala Ser
1 5 10 15

Asn Phe Pro Pro Pro Arg Ala Val Thr Phe Thr Gly Asp
20 25

<210> 229
<211> 28
<212> PRT
<213> Homo sapiens

<400> 229

Cys Leu Met Ser Gly Pro Pro Ala Pro Gln Glu Gly Glu Ala Ser Pro
1 5 10 15

Ser Leu Glu Val Gly Arg Ala Gly Ala Leu Ala Lys
20 25